

Fig.1

TEAM 1	TEAM 2	EVENT
Player 1	Player A	2-point
Player 2	Player B	3-point
Player 3	Player C	Foul
Player 4	Player D	Free Throw
Player 5	Player E	_____
_____	_____	

Fig.2

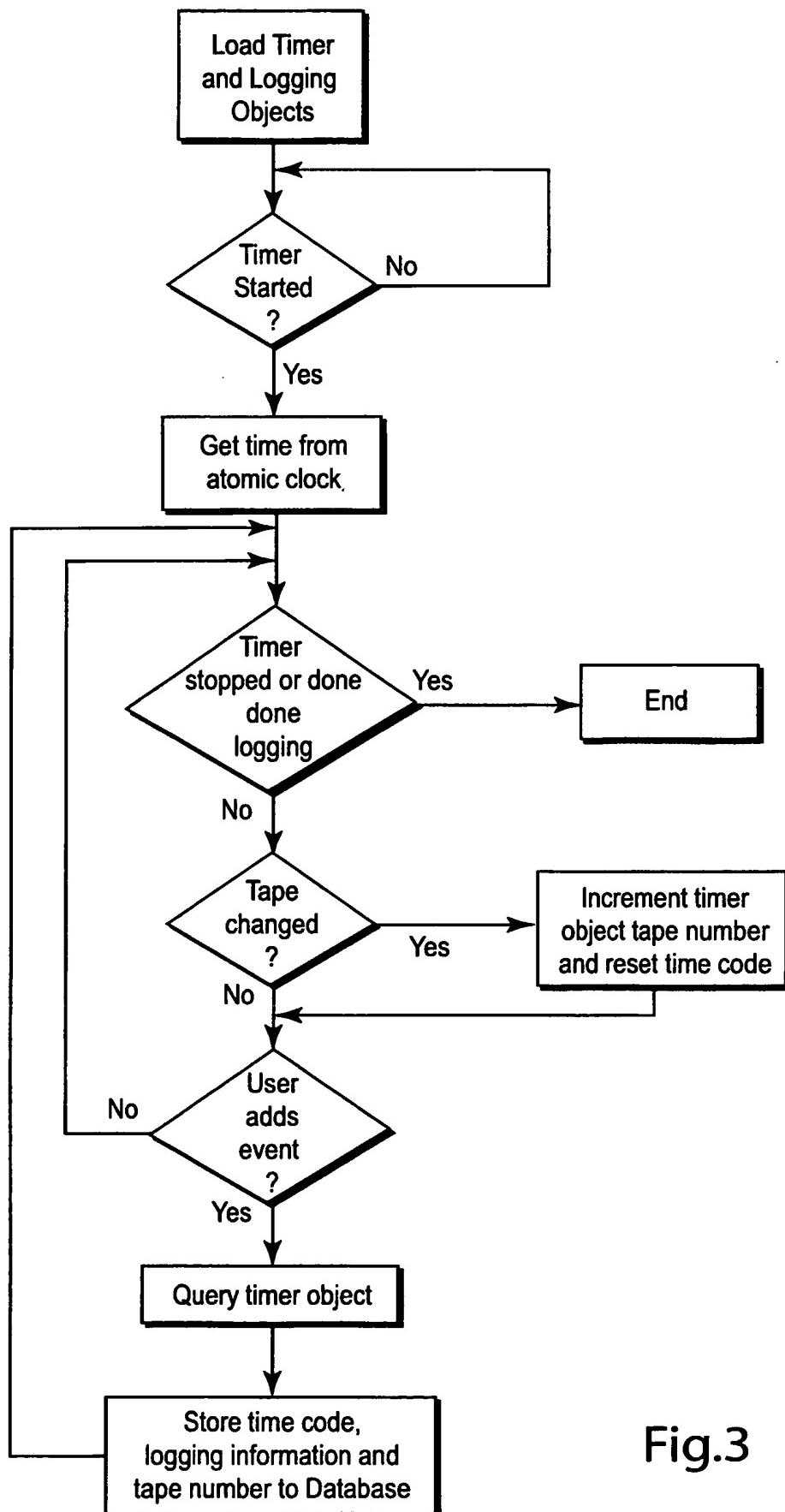
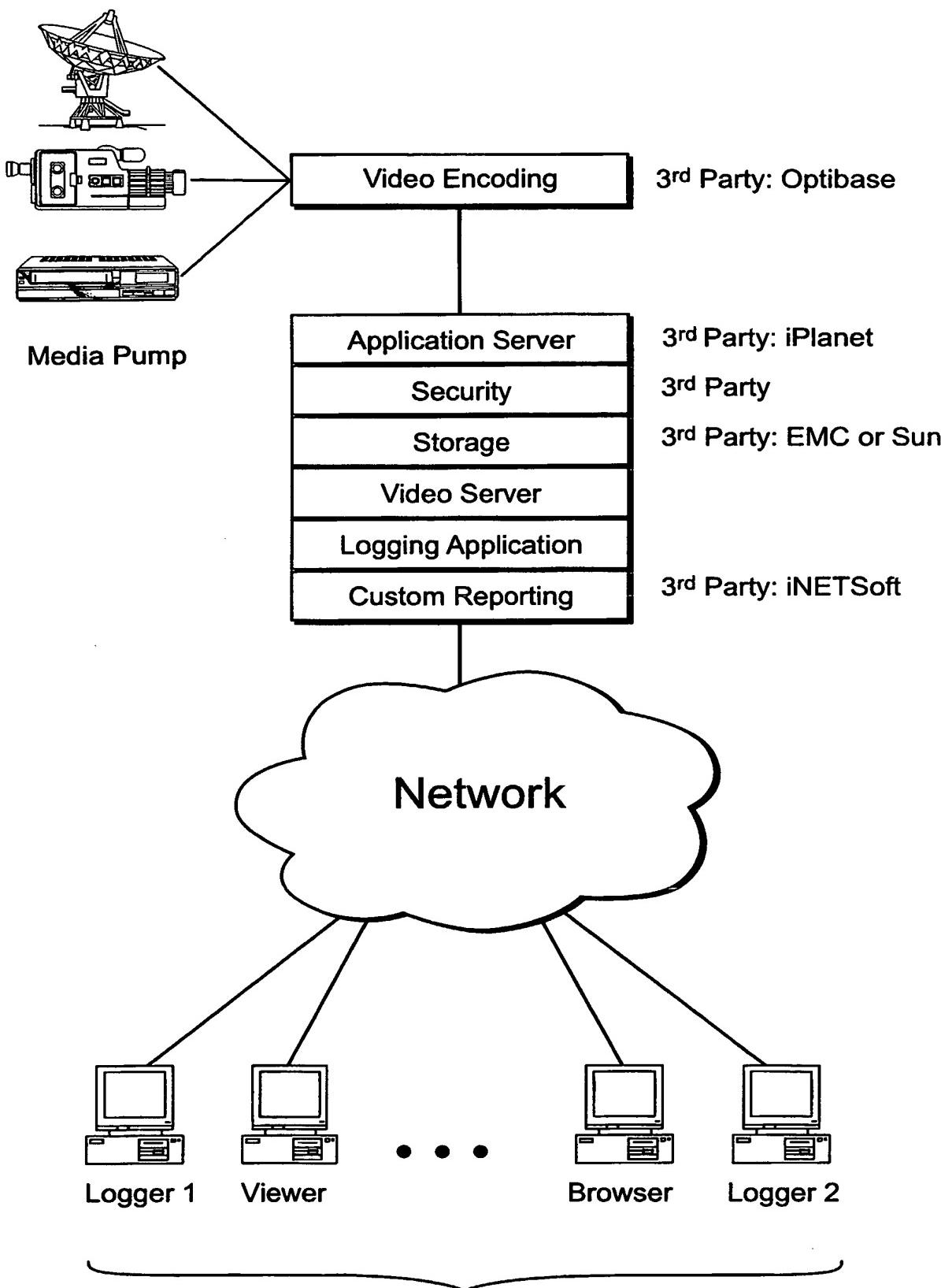


Fig.3

Capture Bridge**Fig.4**

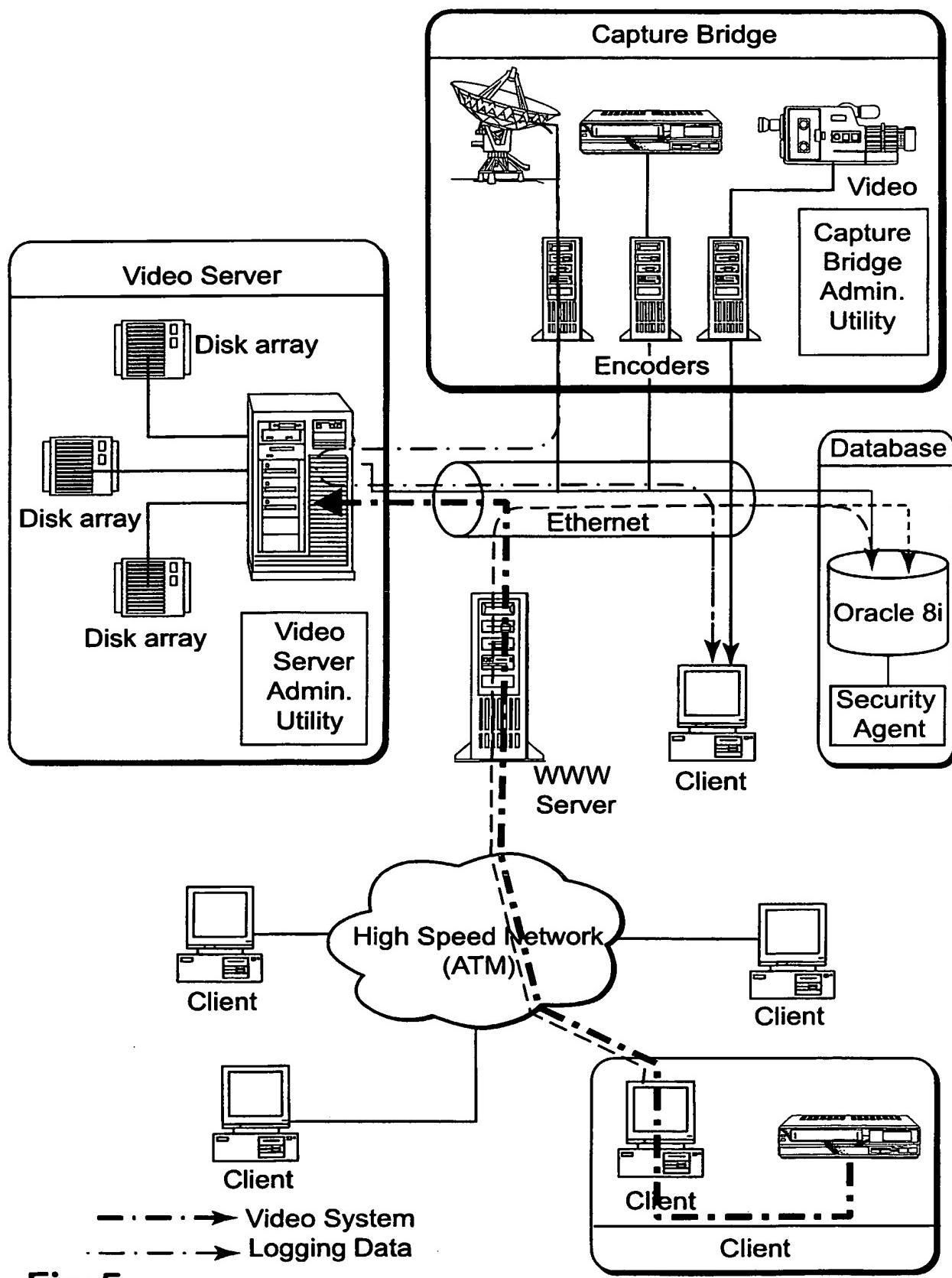


Fig.5

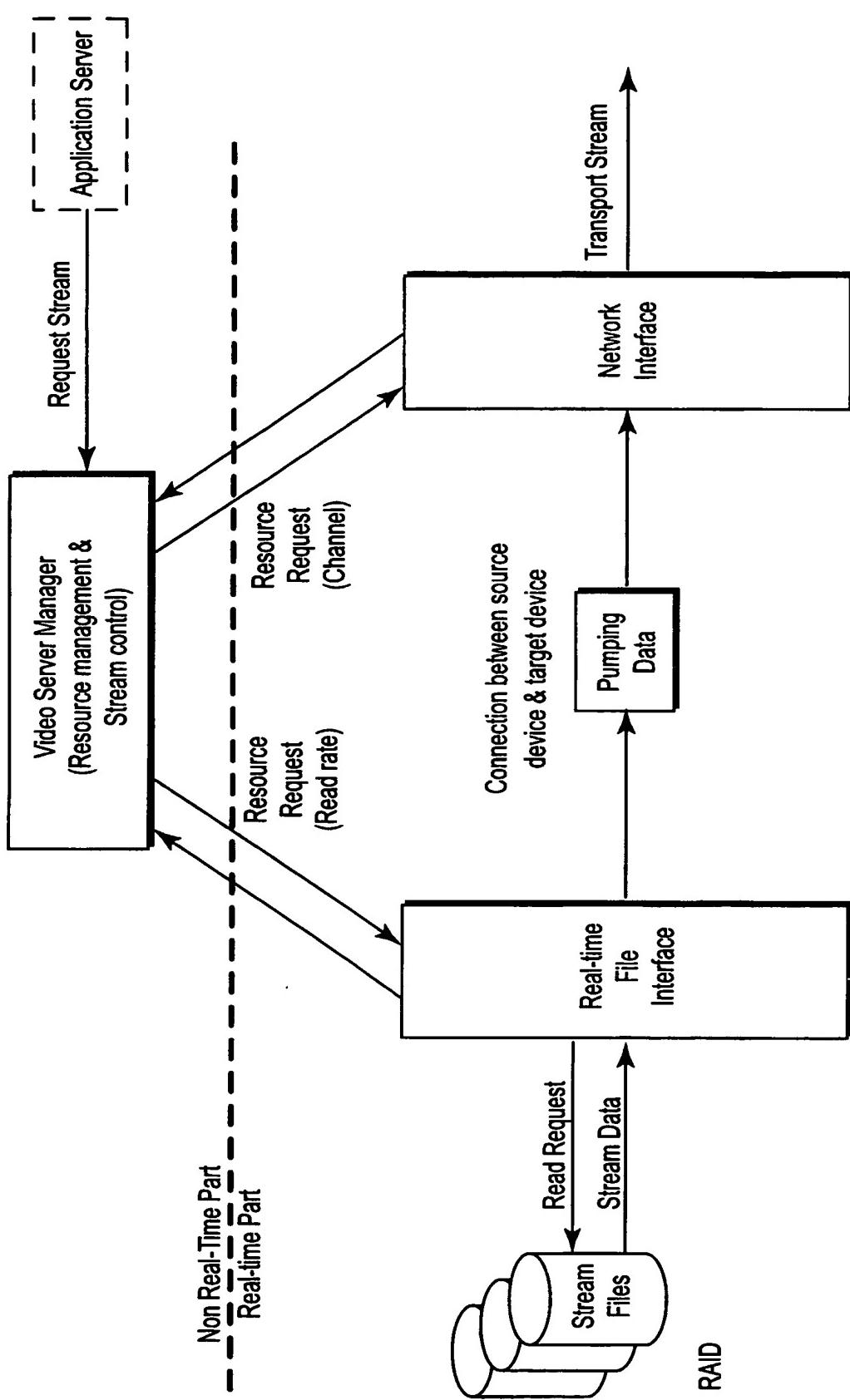


Fig.6 The video Server Architecture

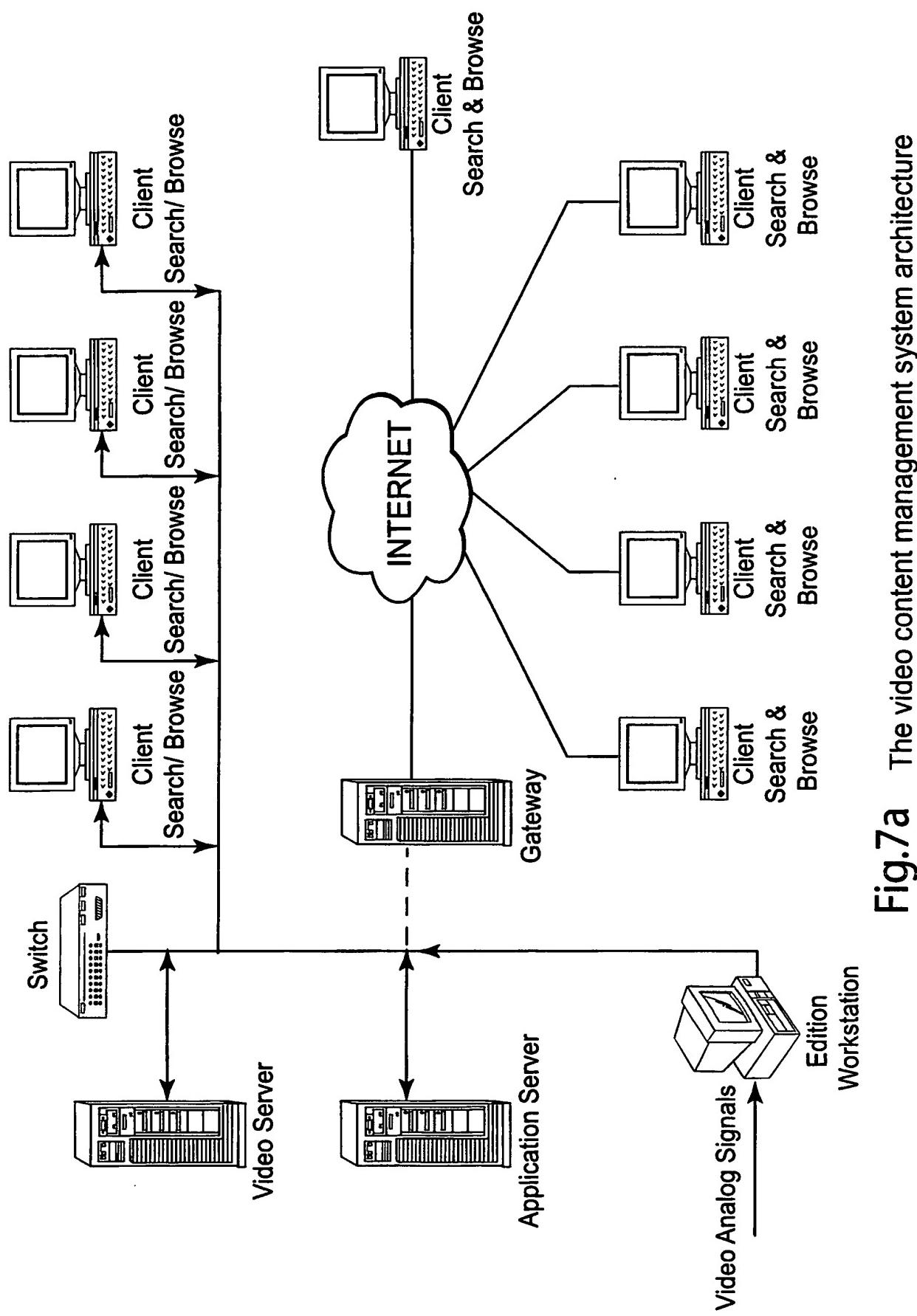


Fig.7a The video content management system architecture

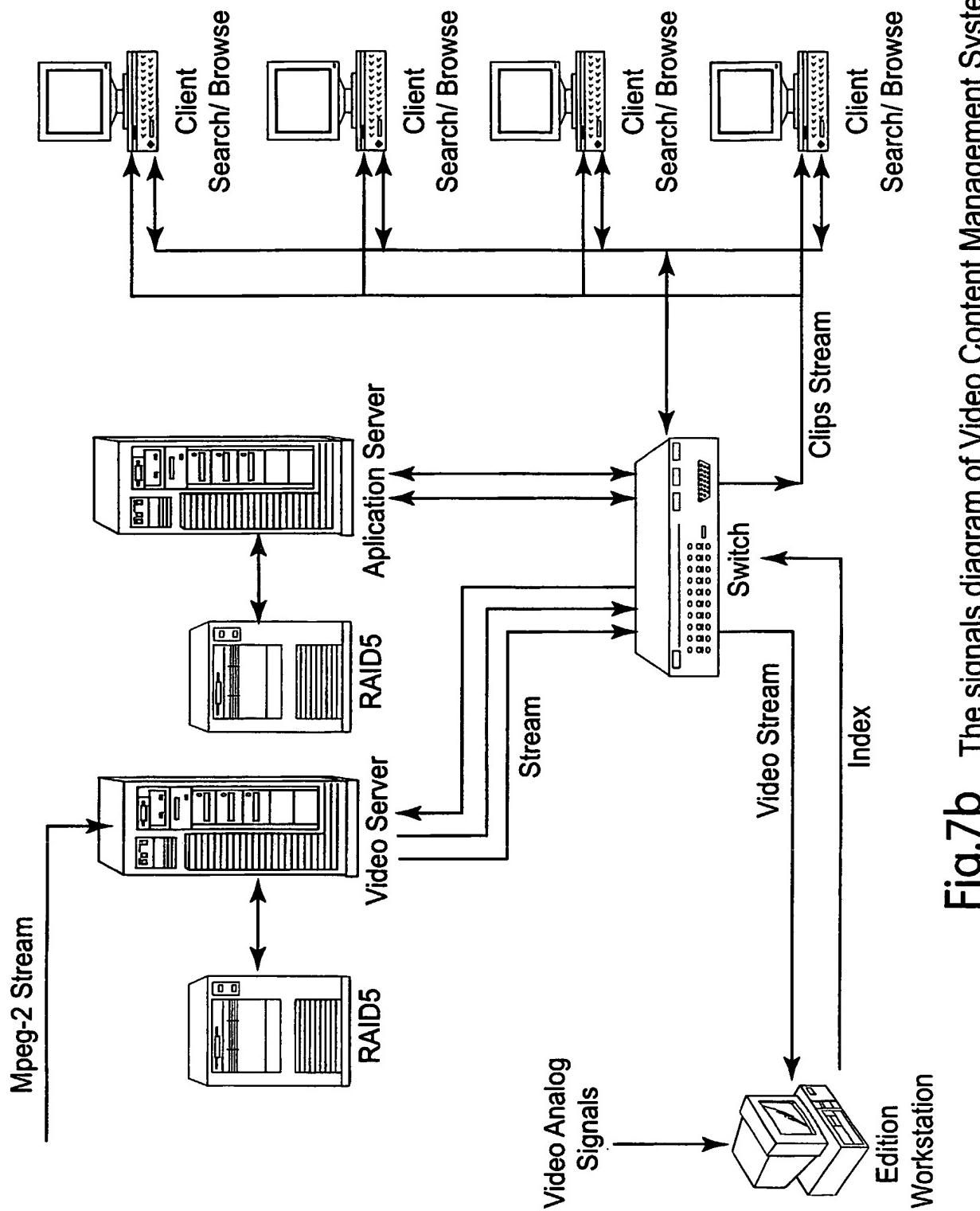


Fig.7b The signals diagram of Video Content Management System

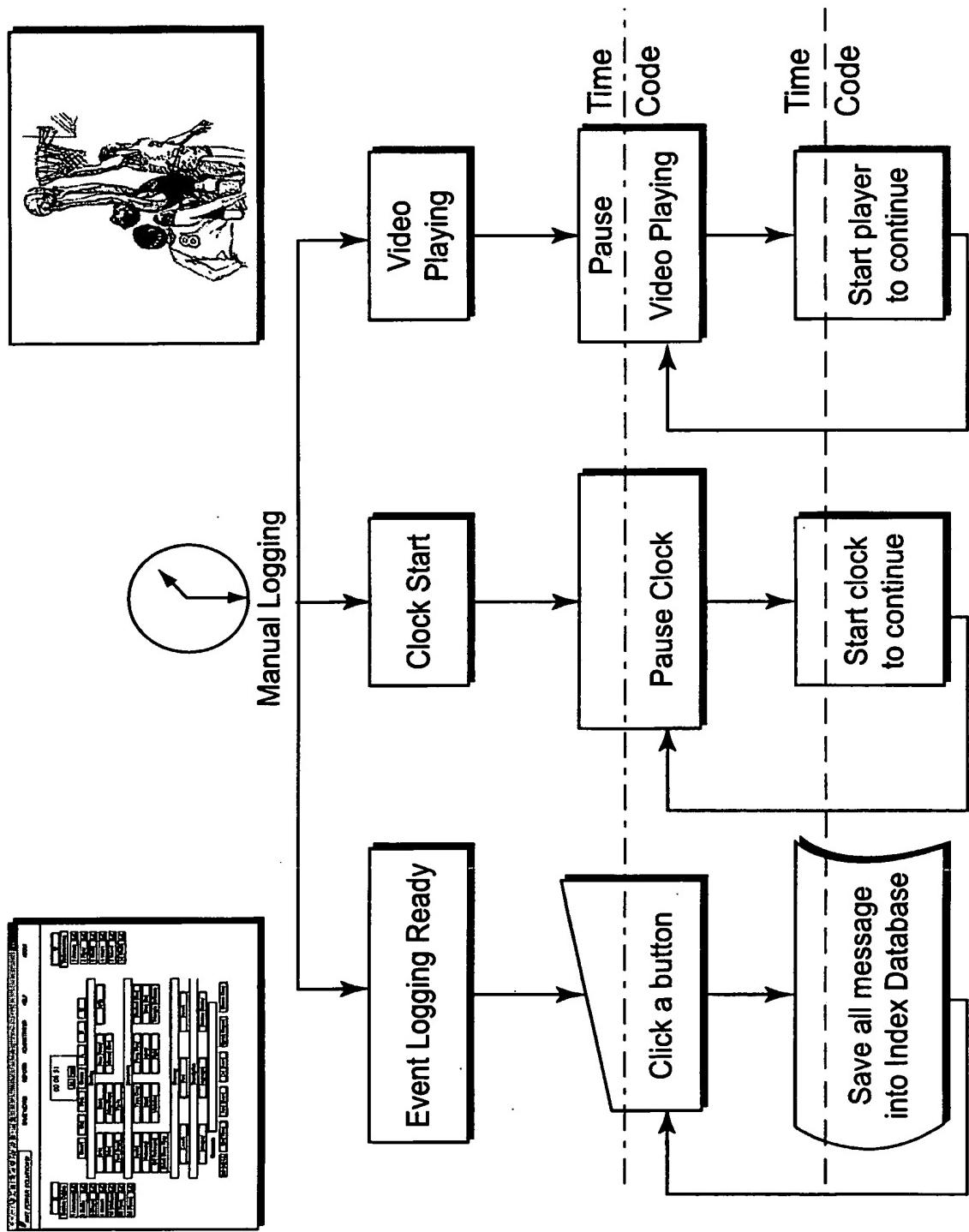


Fig.8a Manual Logger Flowchart

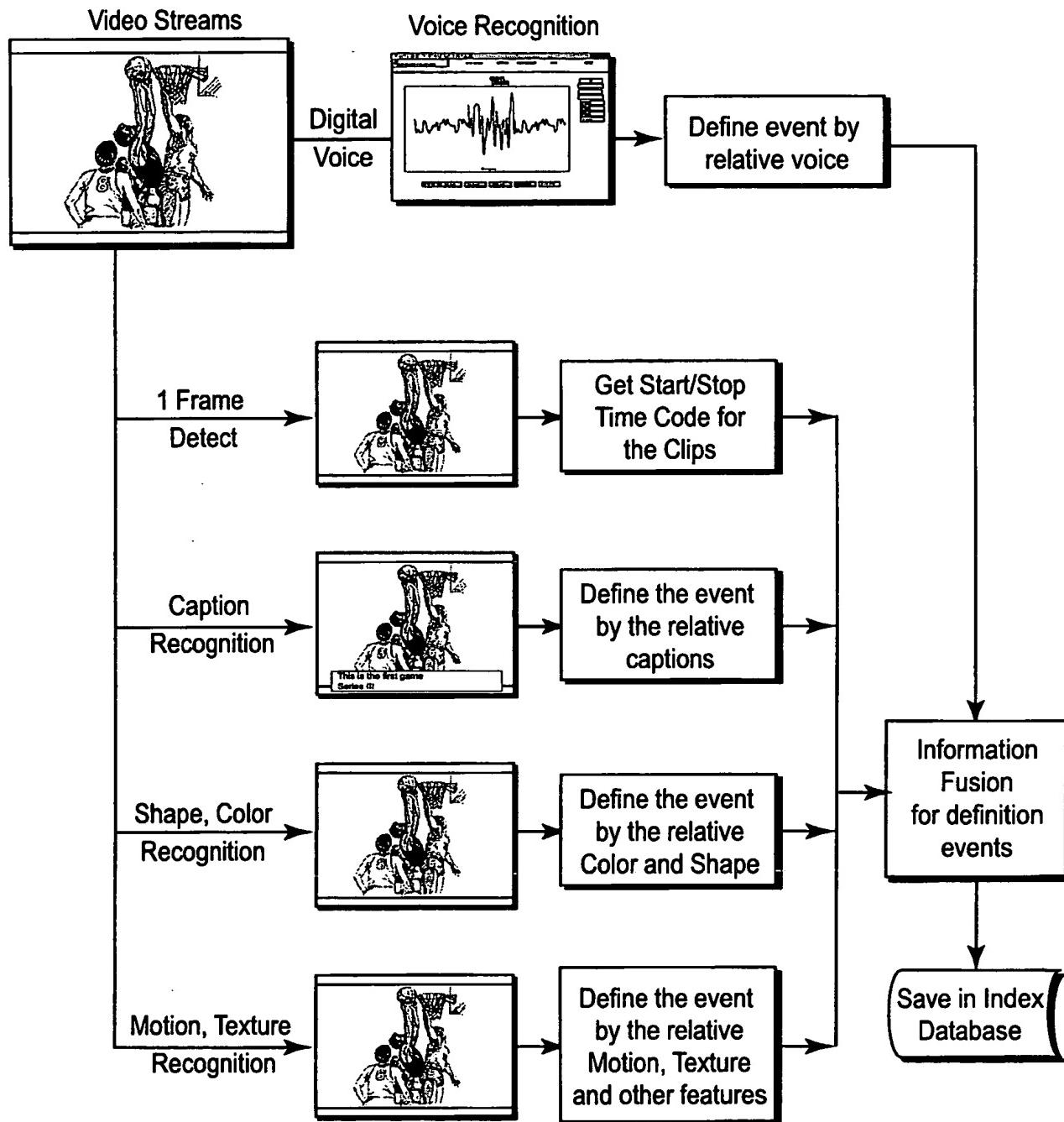


Fig.8b Automatic Logger Flowchart

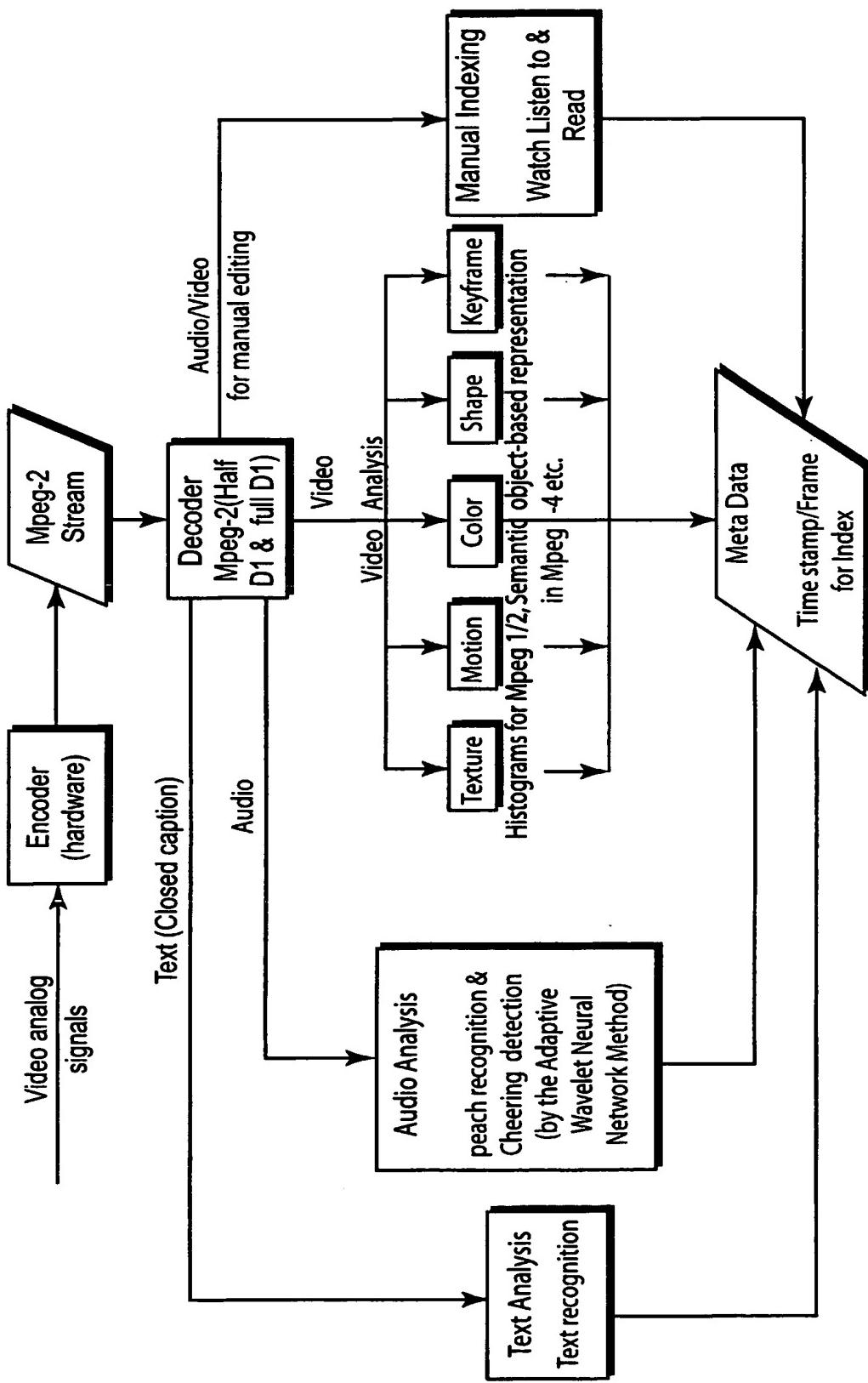


Fig.8C Video Indexing in the Edition Workstation (Manual Logger)

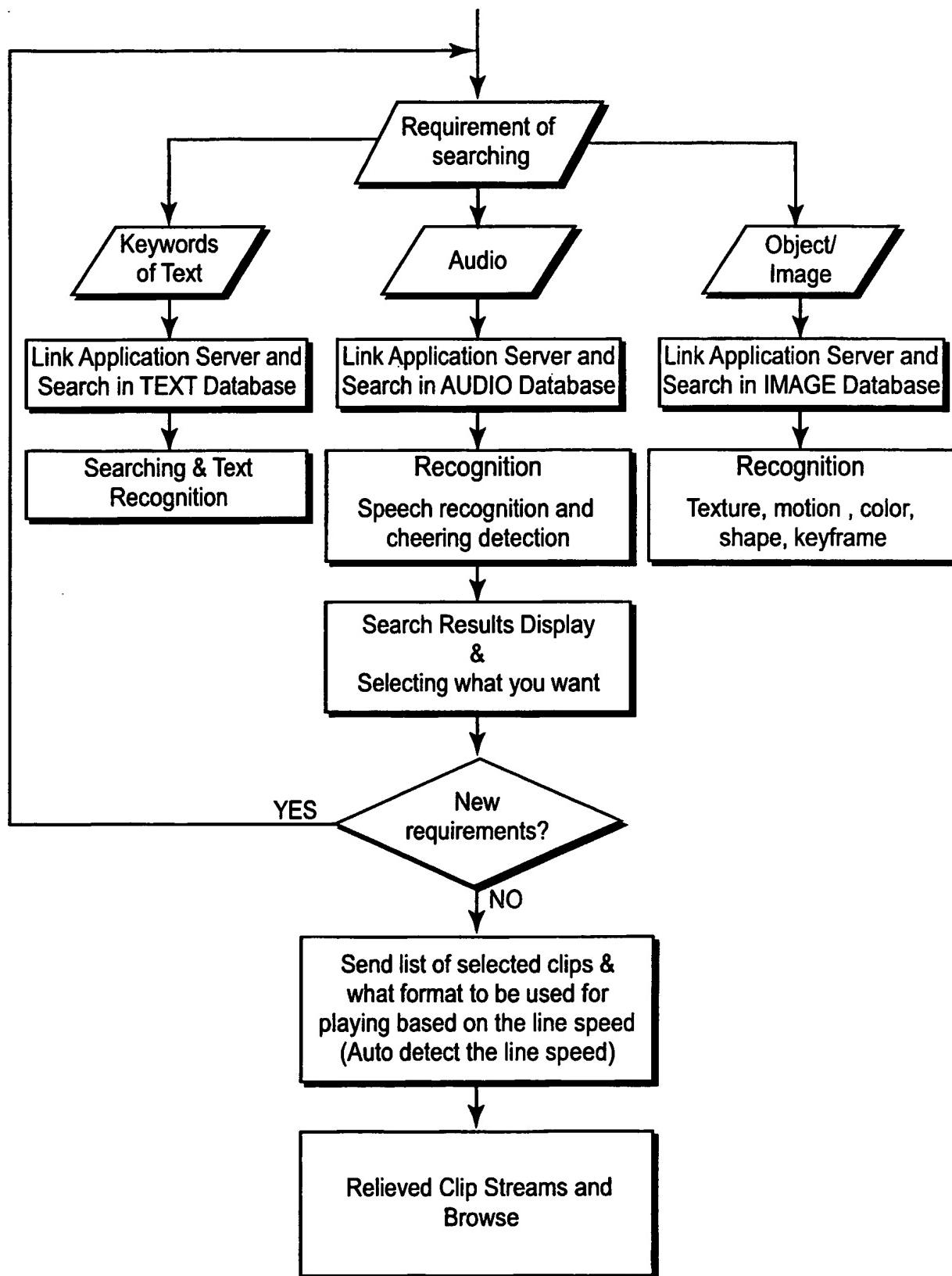


Fig.8d Search and Browse in the Clients

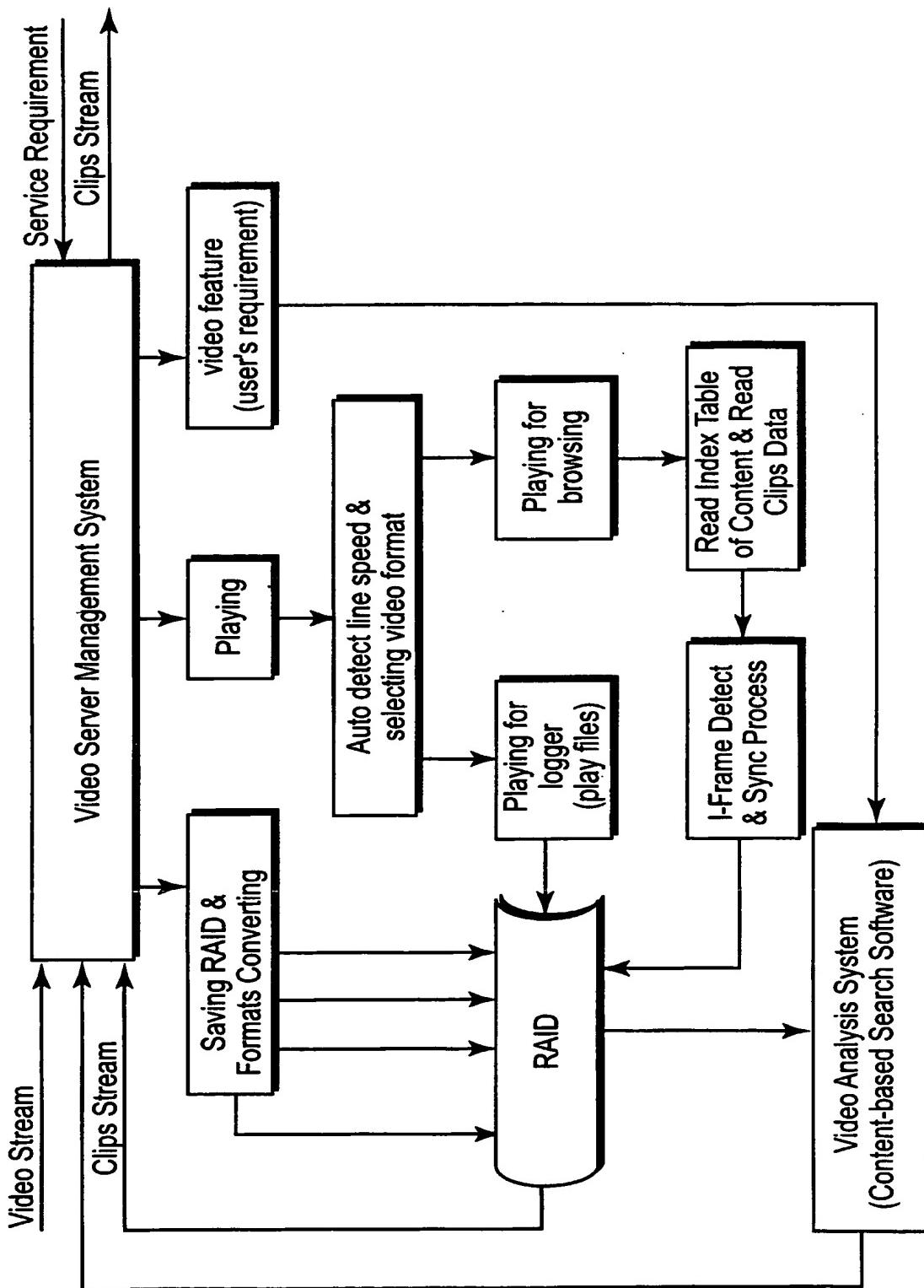


Fig.8e Video Server Flow Diagram

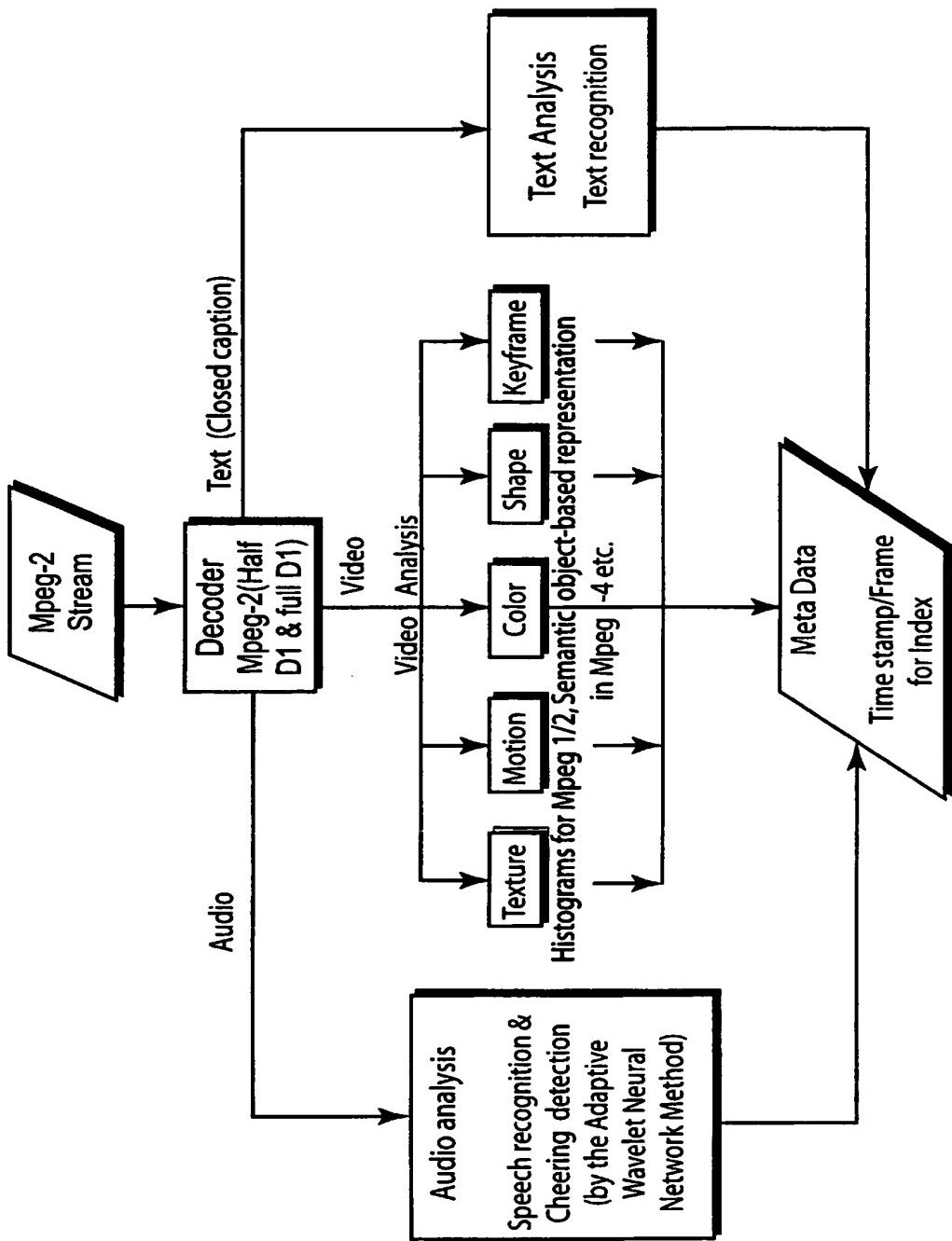


Fig.8f Video Analysis Subsystem Flow Diagram

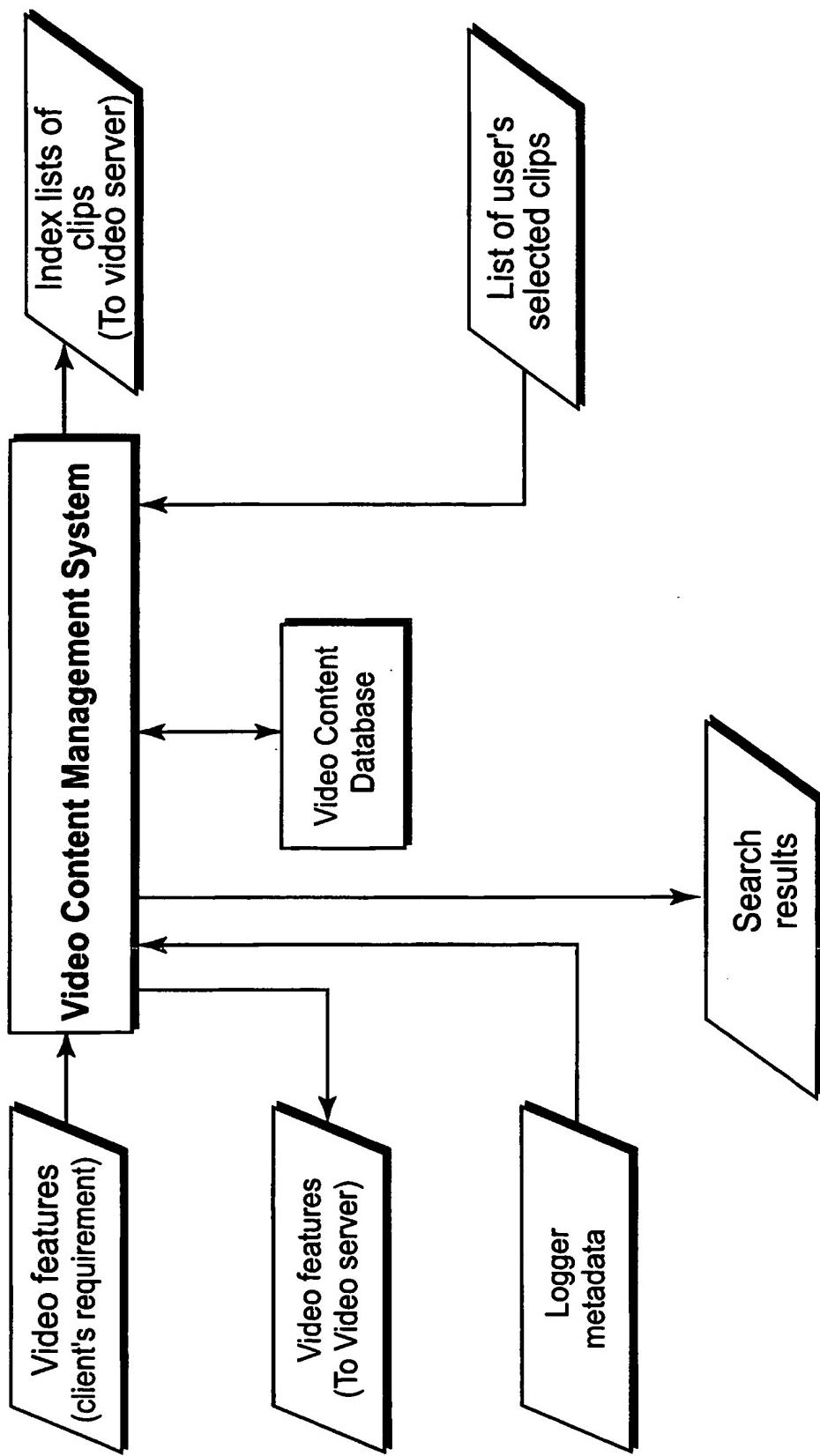


Fig.8g Application Server Flow Diagram

Path	Filename	Start Time-code	Stop Time-code	Stream Format
------	----------	-----------------	----------------	---------------

Fig.9 Video Frame Index Format

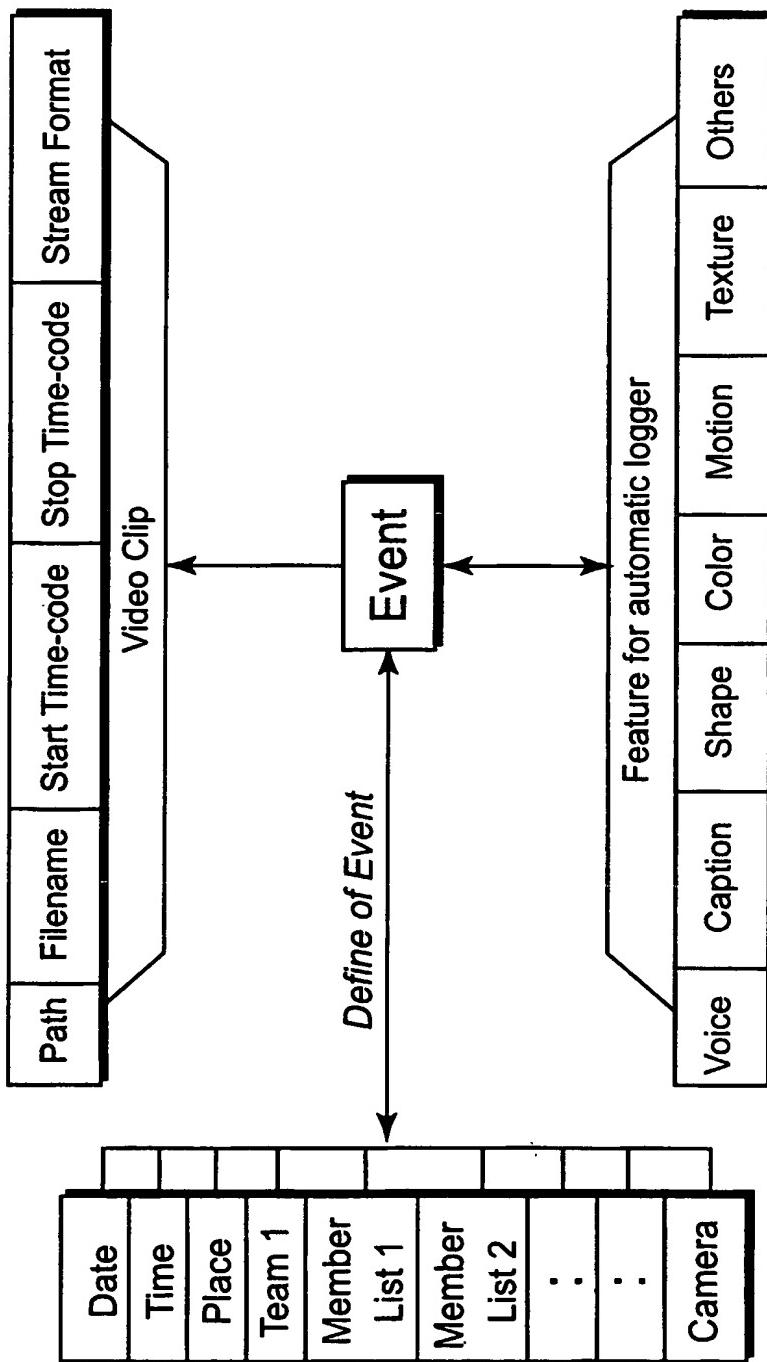


Fig.10 The Relationship between the Video Index, Features and Event Database.

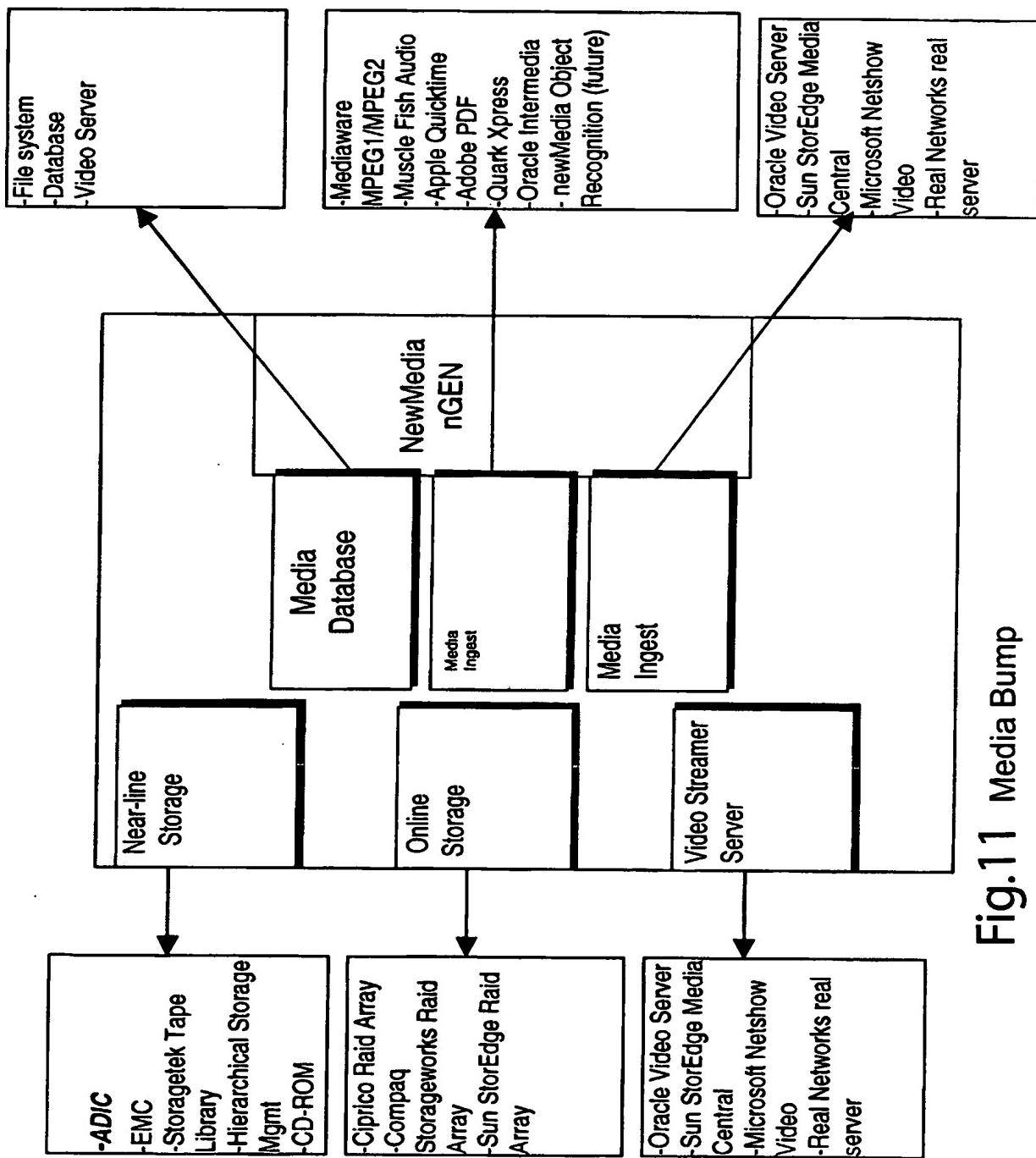


Fig.11 Media Bump

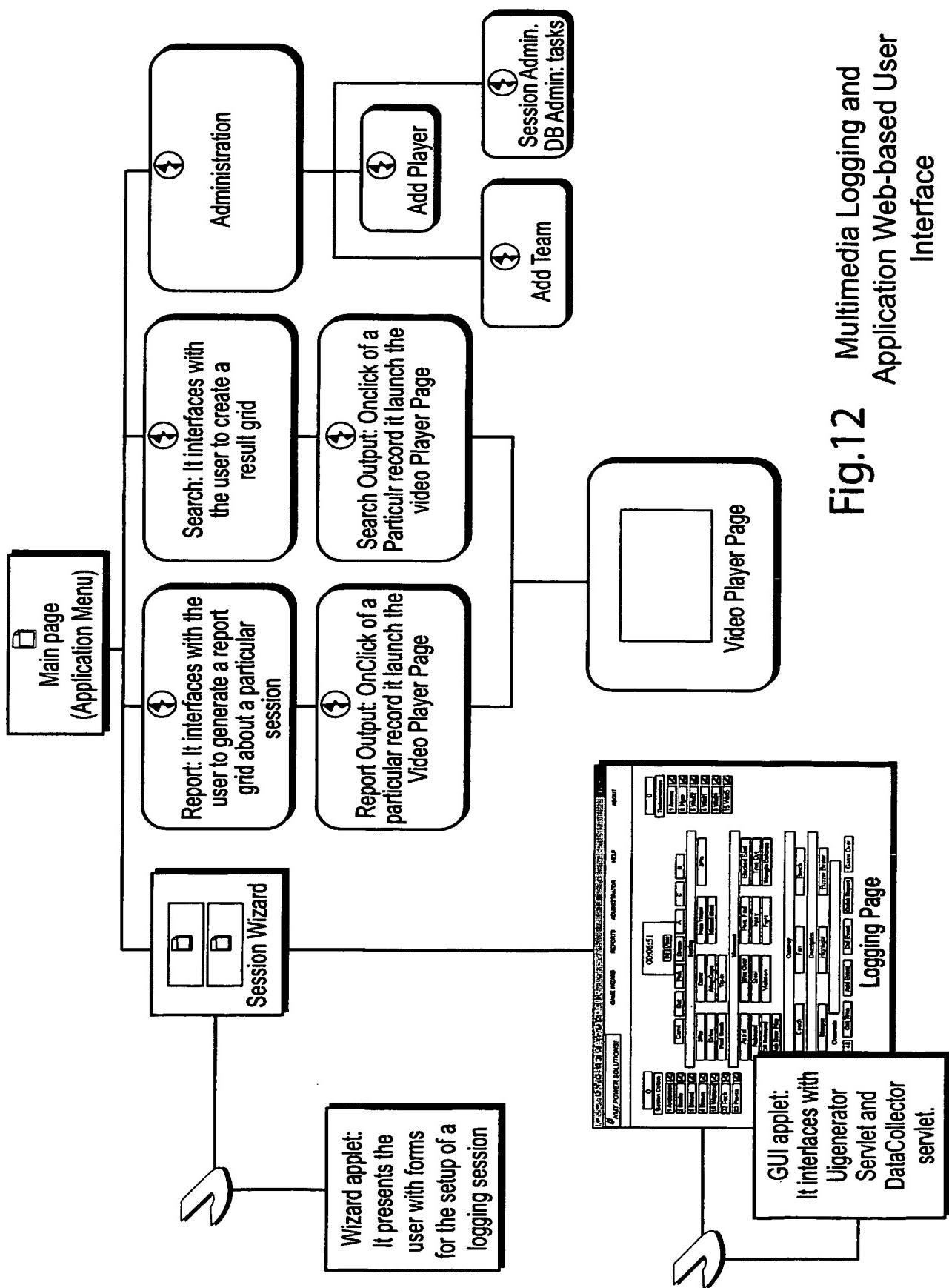


Fig. 1.2 Multimedia Logging and Application Web-based User Interface

Database Table

GroupName	NumberOfElmens	Xpos	Ypos	bckground
NMT	15	300px	250px	Red
ComNet	2	500px	250px	

Fig.13

CustID	Cust. Name	ElmType	Dblclick	Click	GroupName	Xpos	Ypos
1	Charles Smith	Button	List	Select	NMT	0	0
2	Alphonso Hamilton	Button	List	Select	NMT	1	0
3	Rafael Cortina	Button	List	Select	NMT	0	1
4	Rovi	Button	List	ExSelect	ComNet	0	0
5	Cliff	Button	List	ExSelect	ComNet	1	0

Fig.14

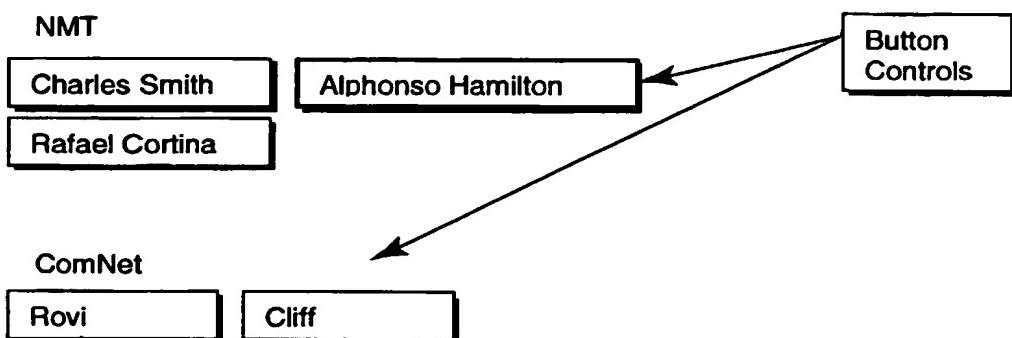


Fig.15

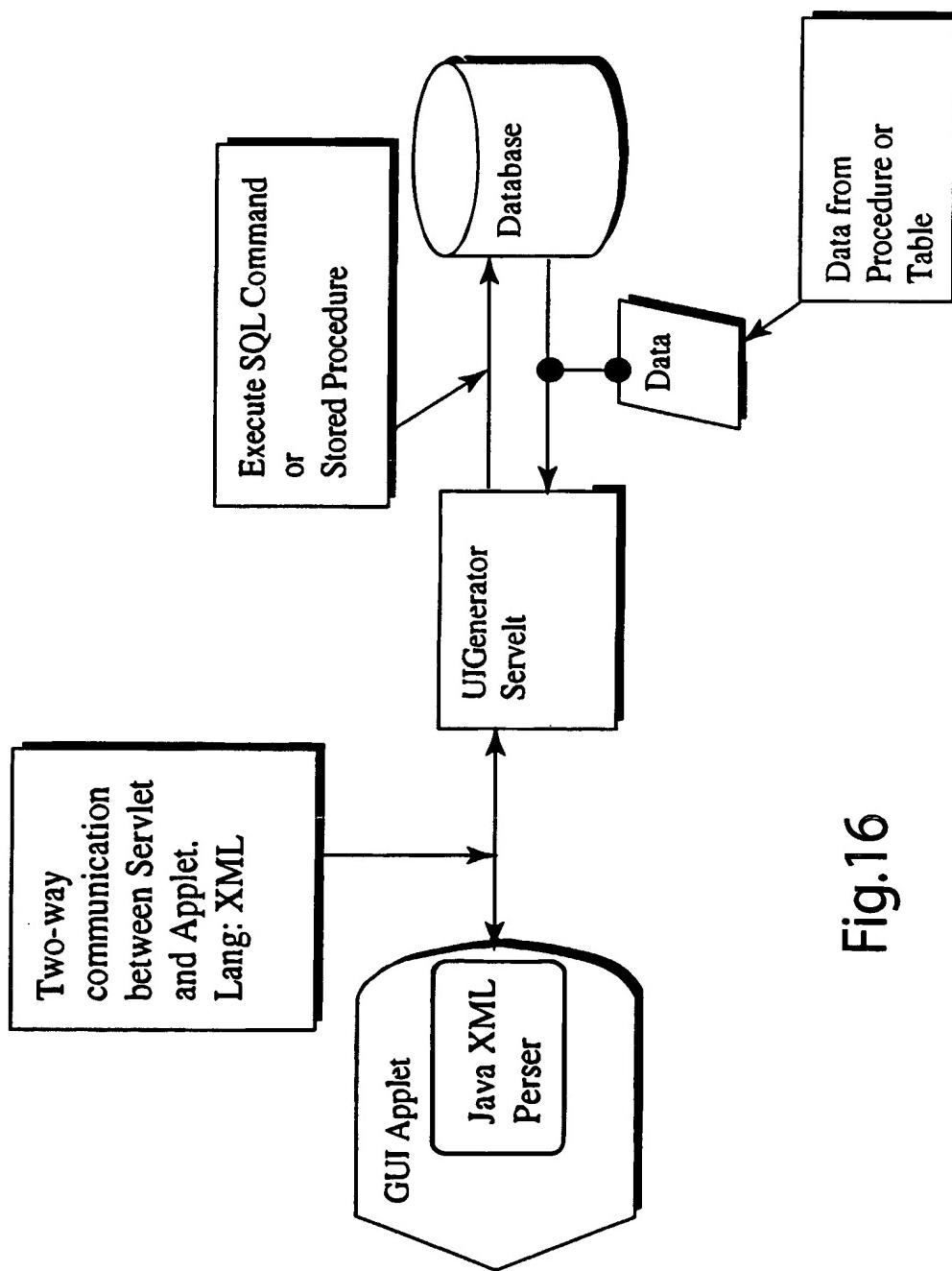


Fig.16

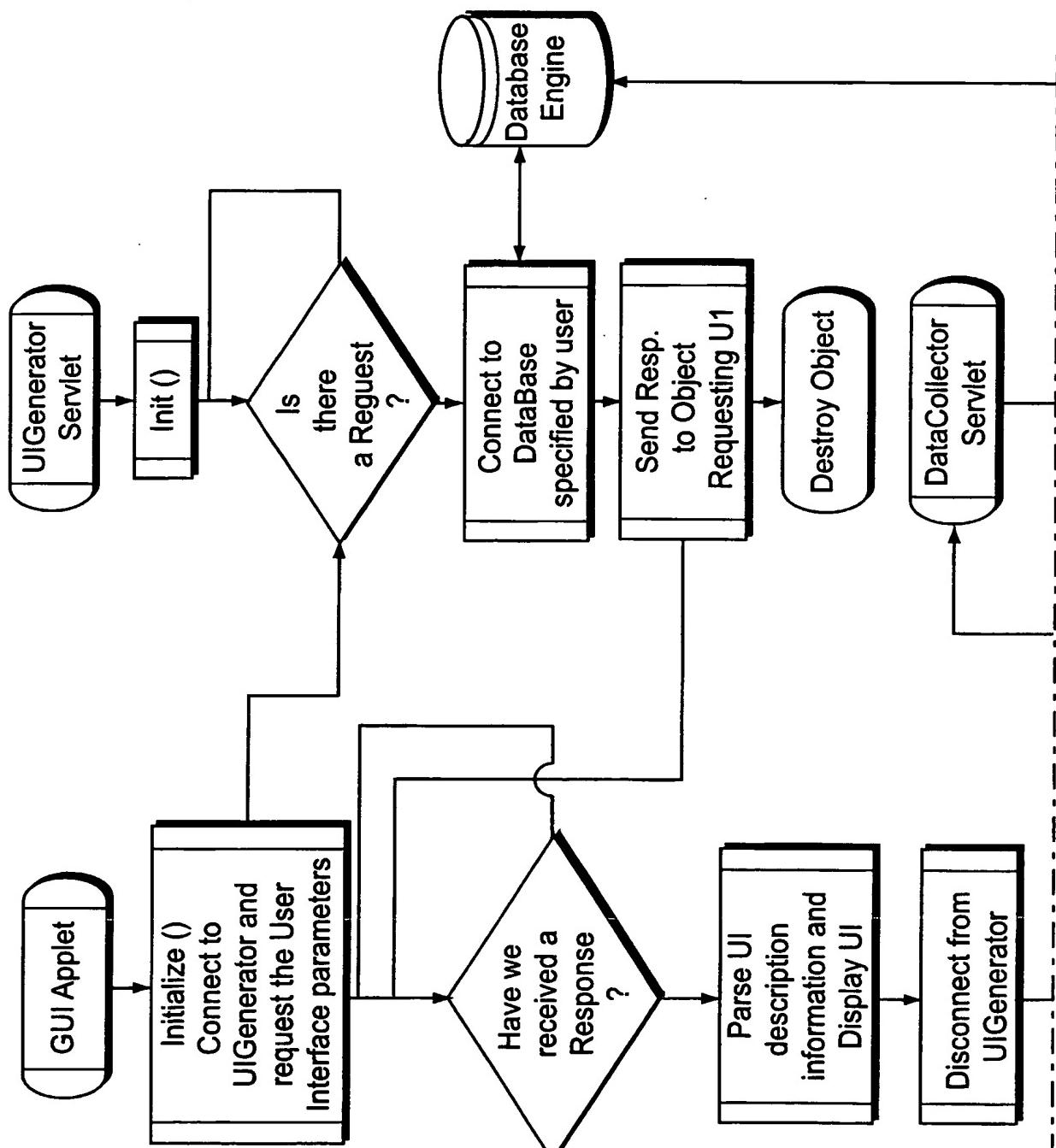


Fig.17a

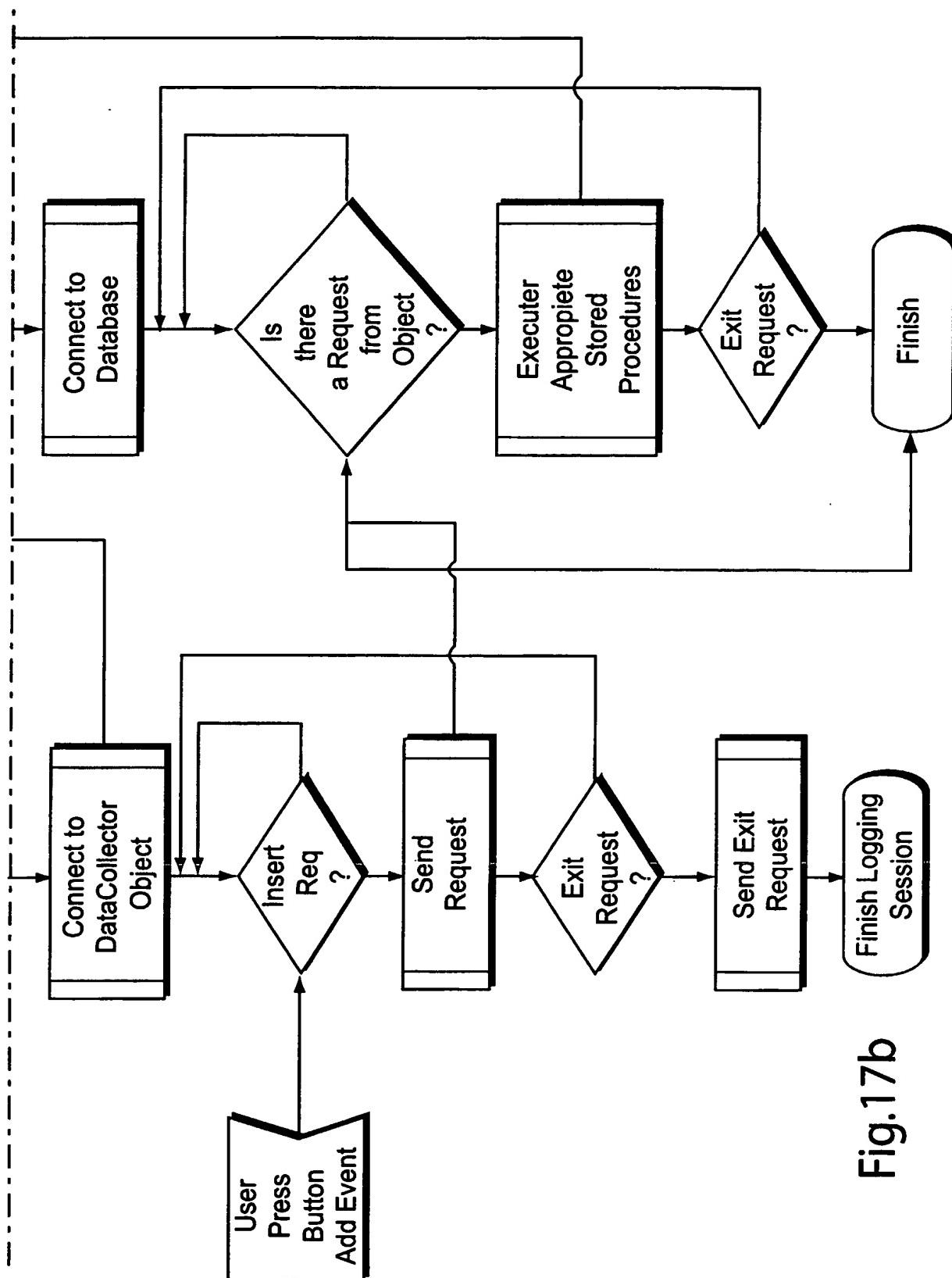


Fig.17b

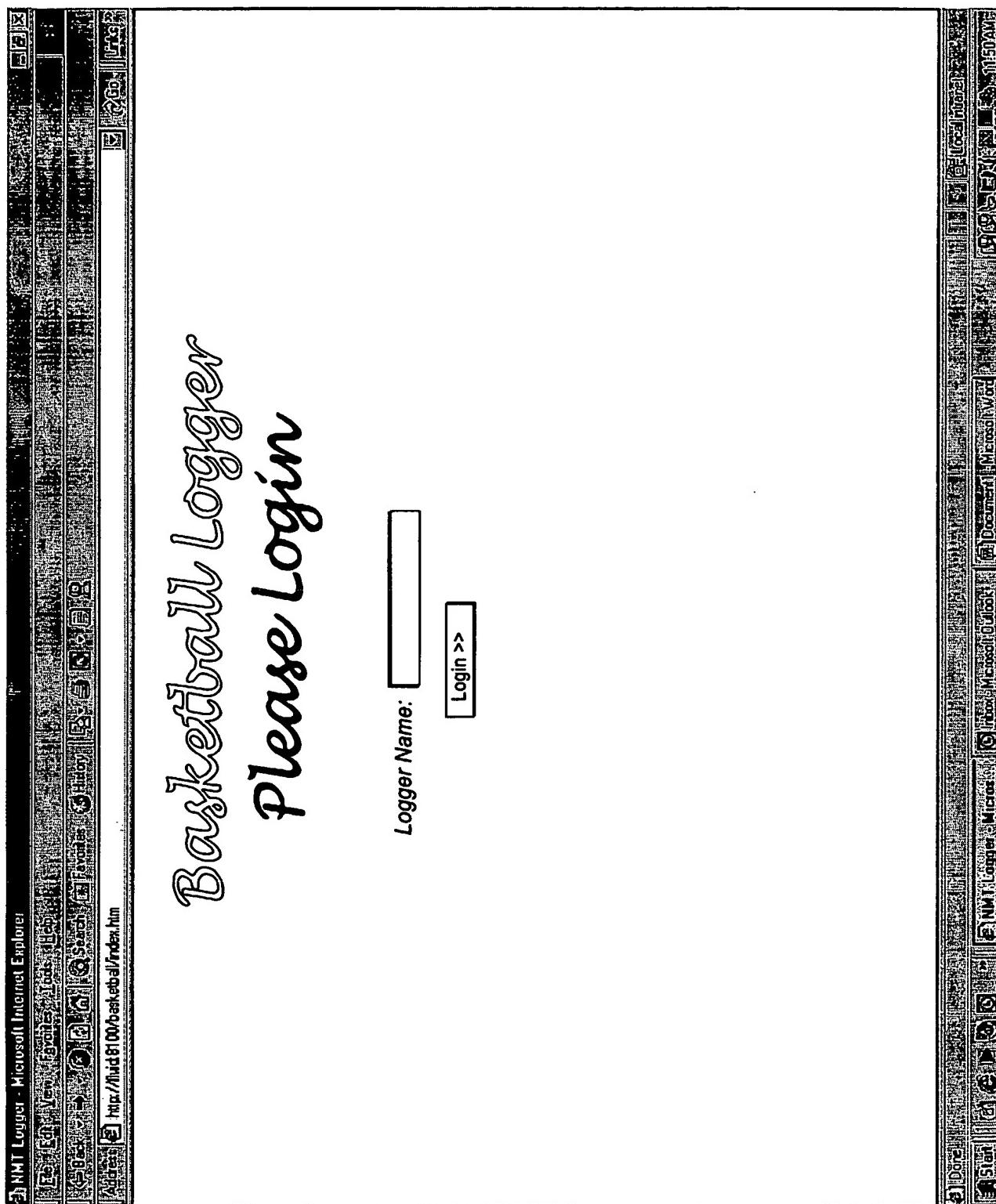


Fig.18

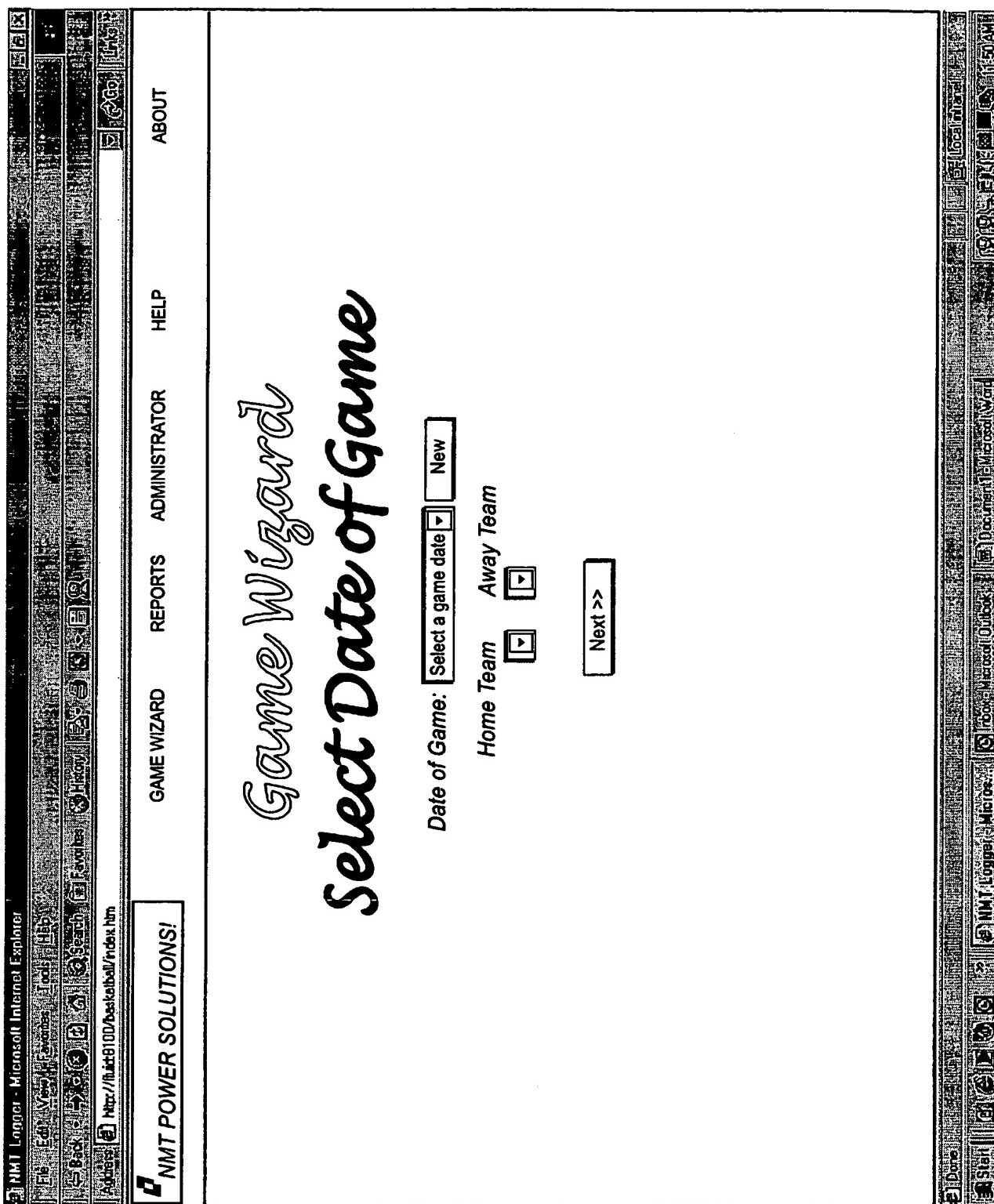


Fig.19

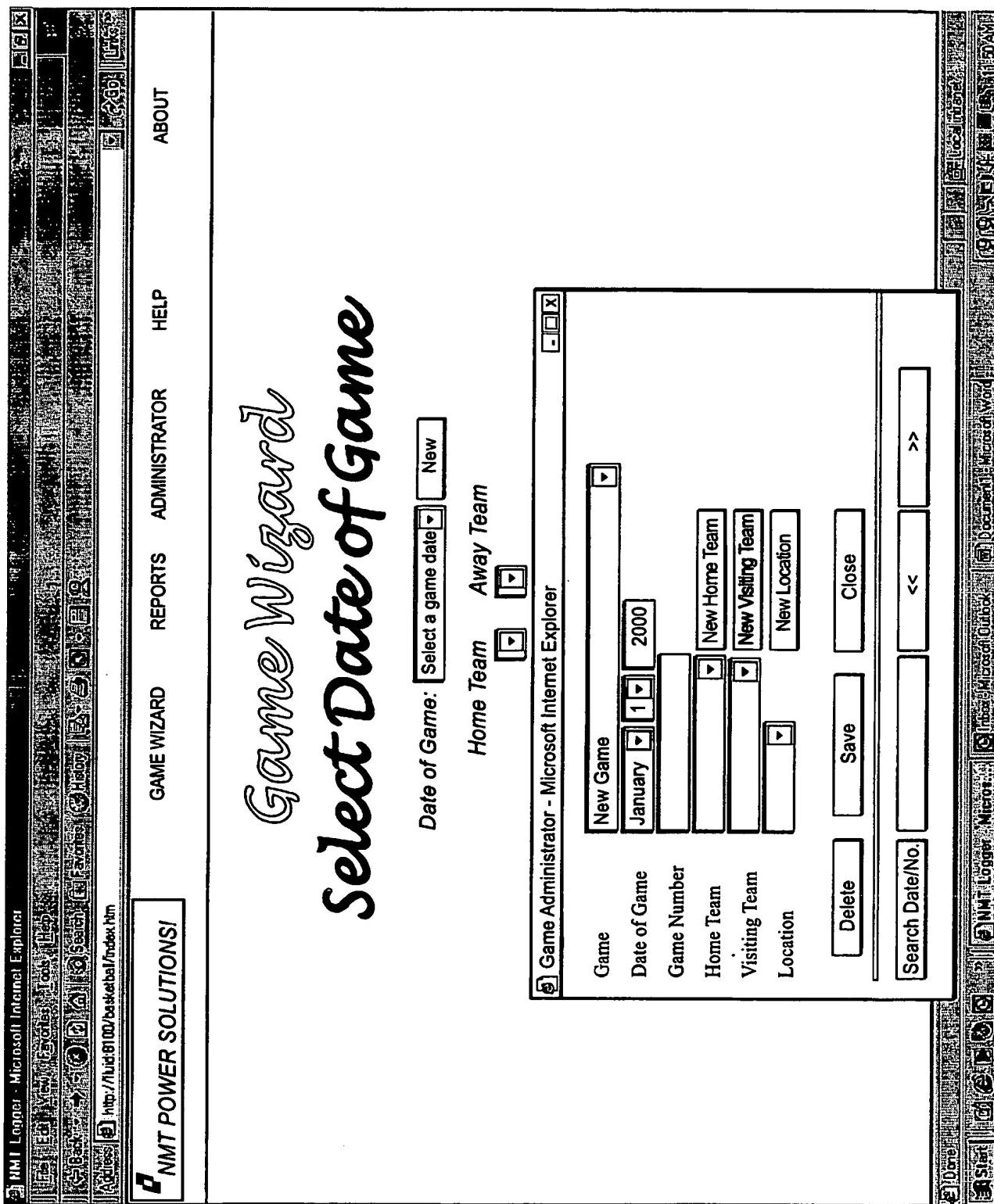


Fig.20

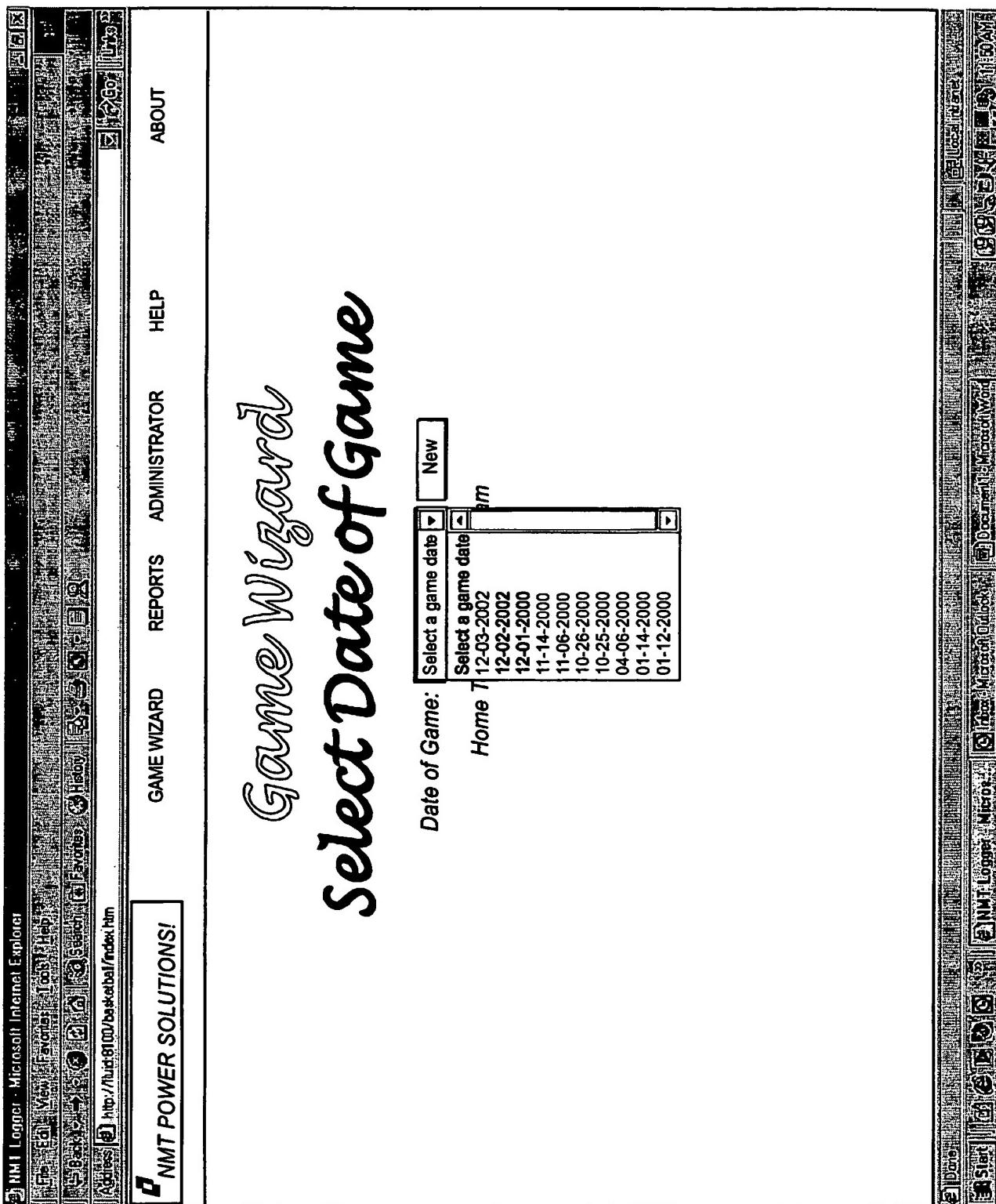


Fig.21

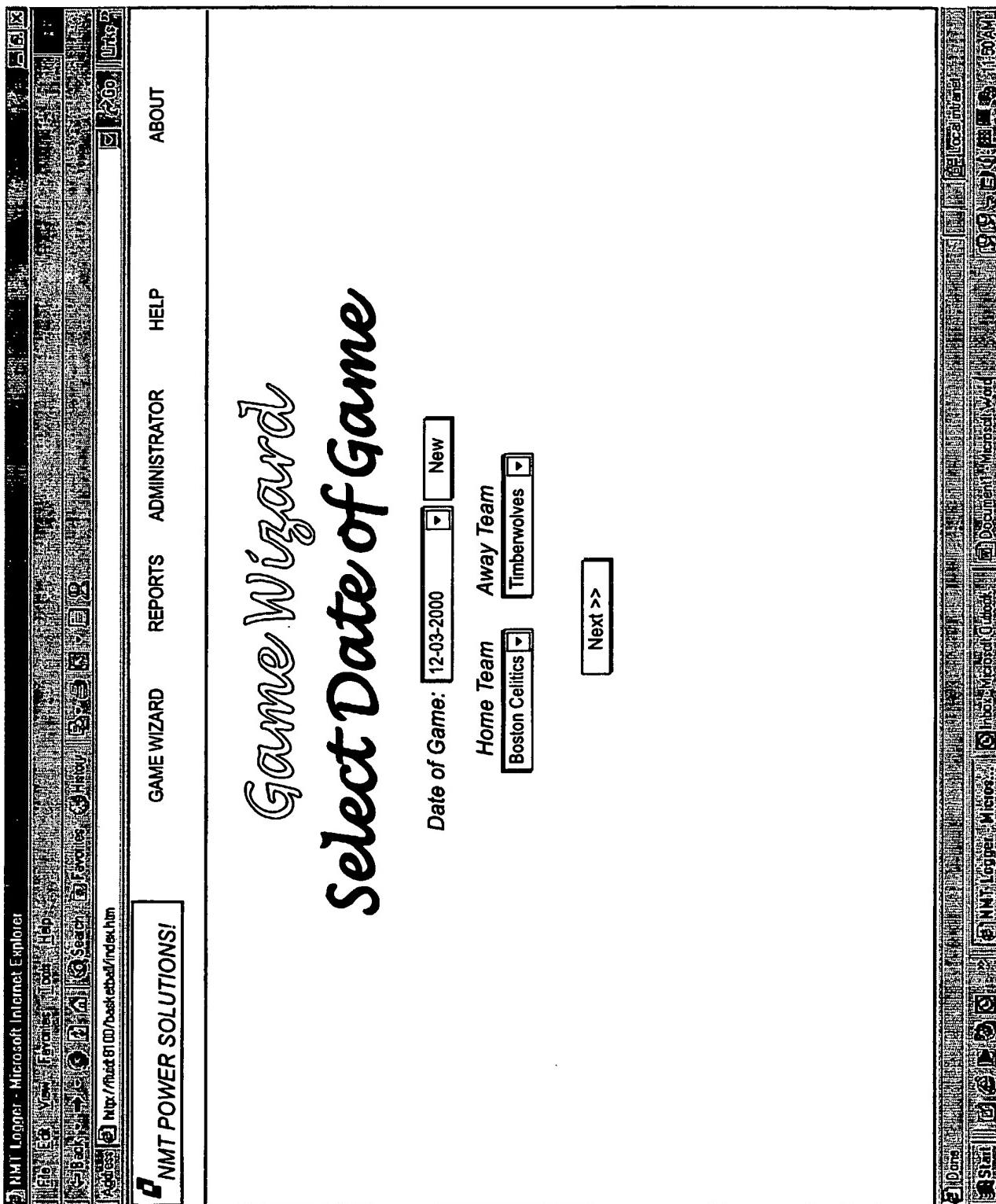


Fig.22

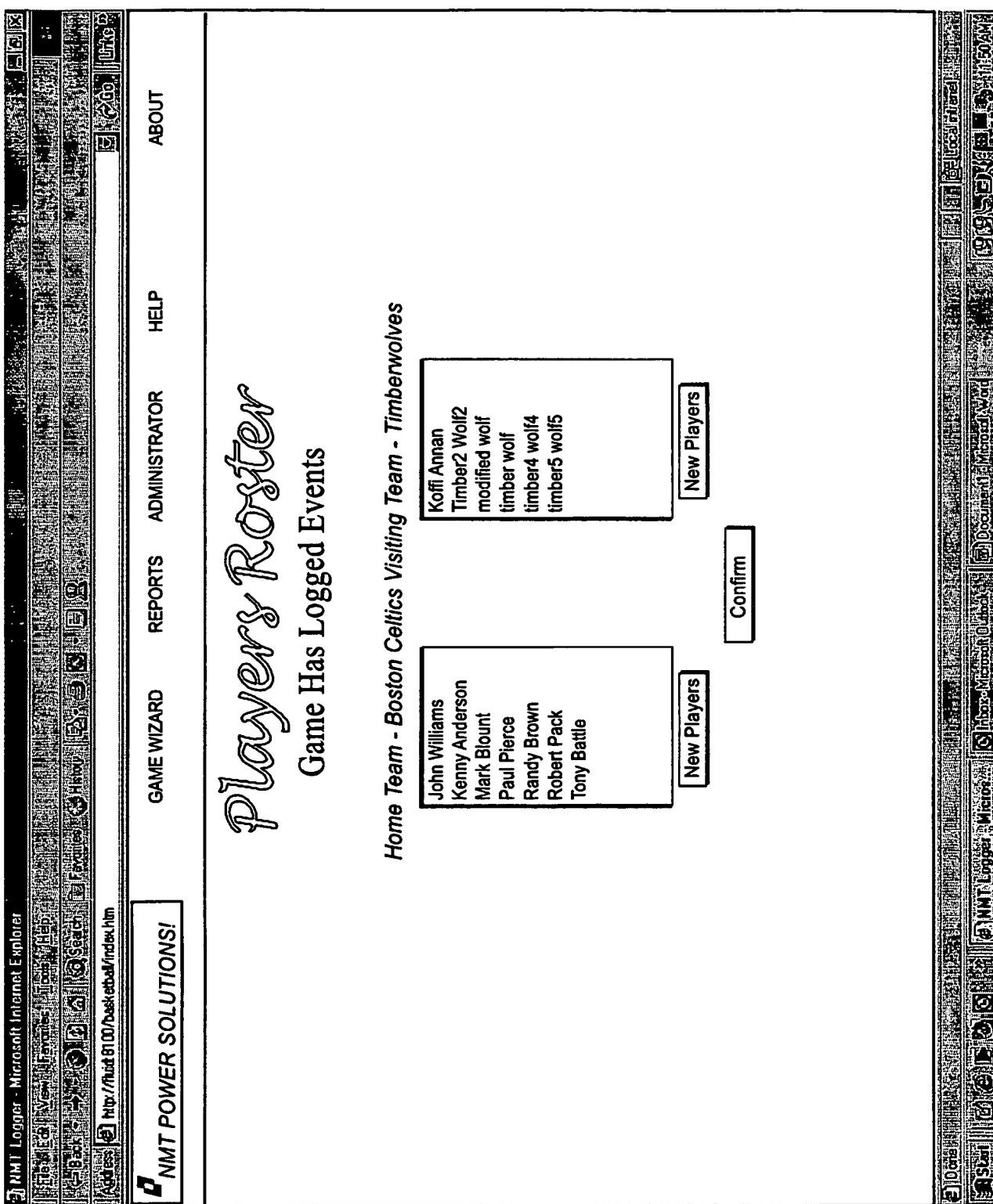


Fig.23

<p>NMT POWER SOLUTIONS!</p>		<p>Players Roster</p> <p>Game Has Logged Events</p> <p>Home Team - Boston Celtics</p> <table border="1"> <tr><td>John Williams</td></tr> <tr><td>Kenny Anderson</td></tr> <tr><td>Mark Blount</td></tr> <tr><td>Paul Pierce</td></tr> <tr><td>Randy Brown</td></tr> <tr><td>Robert Pack</td></tr> <tr><td>Tony Battle</td></tr> </table> <p>New Players</p> <p>Player Team First Name Last Name Player Number Position Height (XX) Weight (XXX) URL</p> <p>Game Administrator - Microsoft Internet Explorer</p> <p>New Player Boston Celtics ></p> <p>Delete Save Close</p> <p><< >></p> <p>Search Name</p>		John Williams	Kenny Anderson	Mark Blount	Paul Pierce	Randy Brown	Robert Pack	Tony Battle
John Williams										
Kenny Anderson										
Mark Blount										
Paul Pierce										
Randy Brown										
Robert Pack										
Tony Battle										

Fig.24

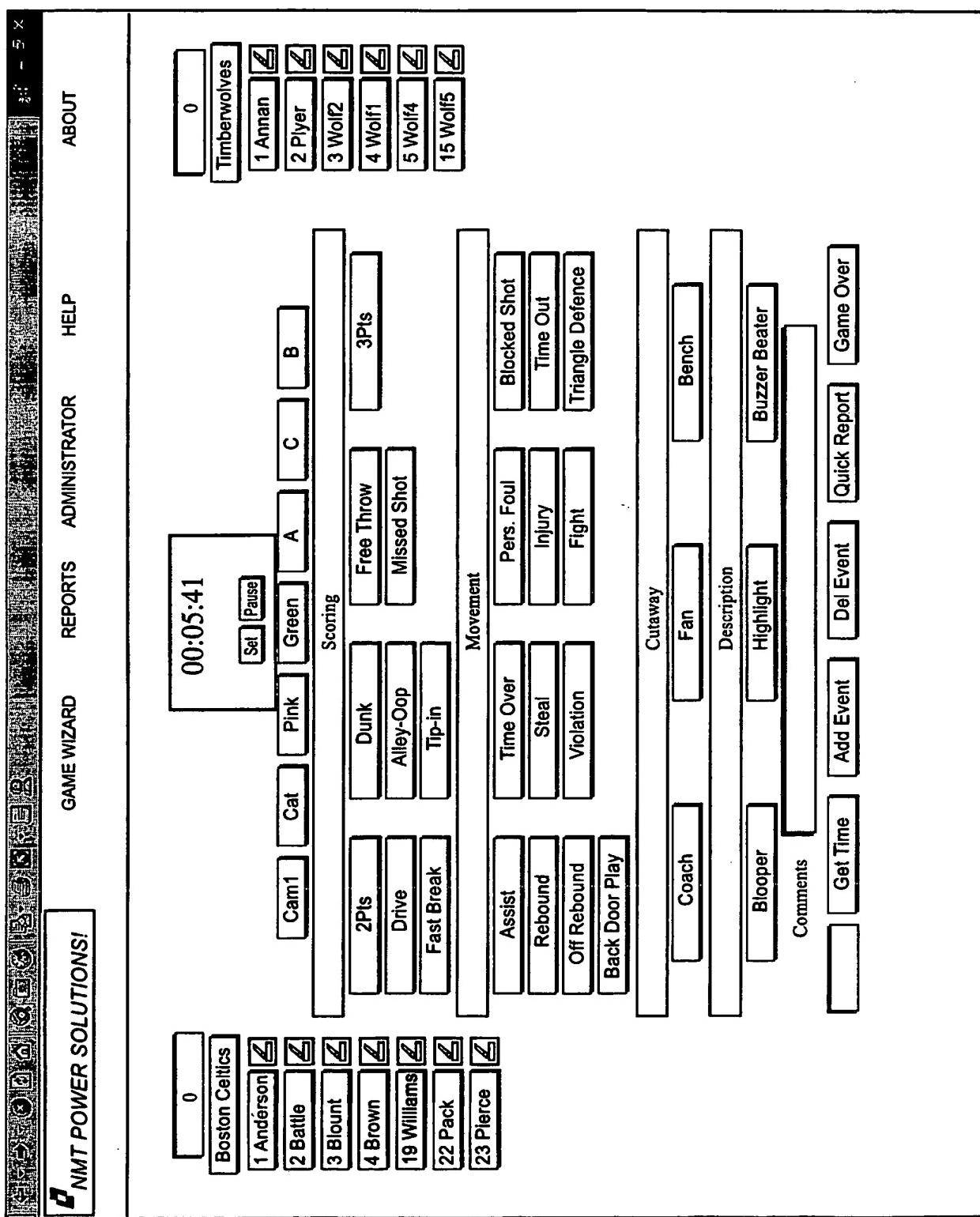


Fig.25

WO0250 " 30090860

9 / 8 0 0 0 0 8

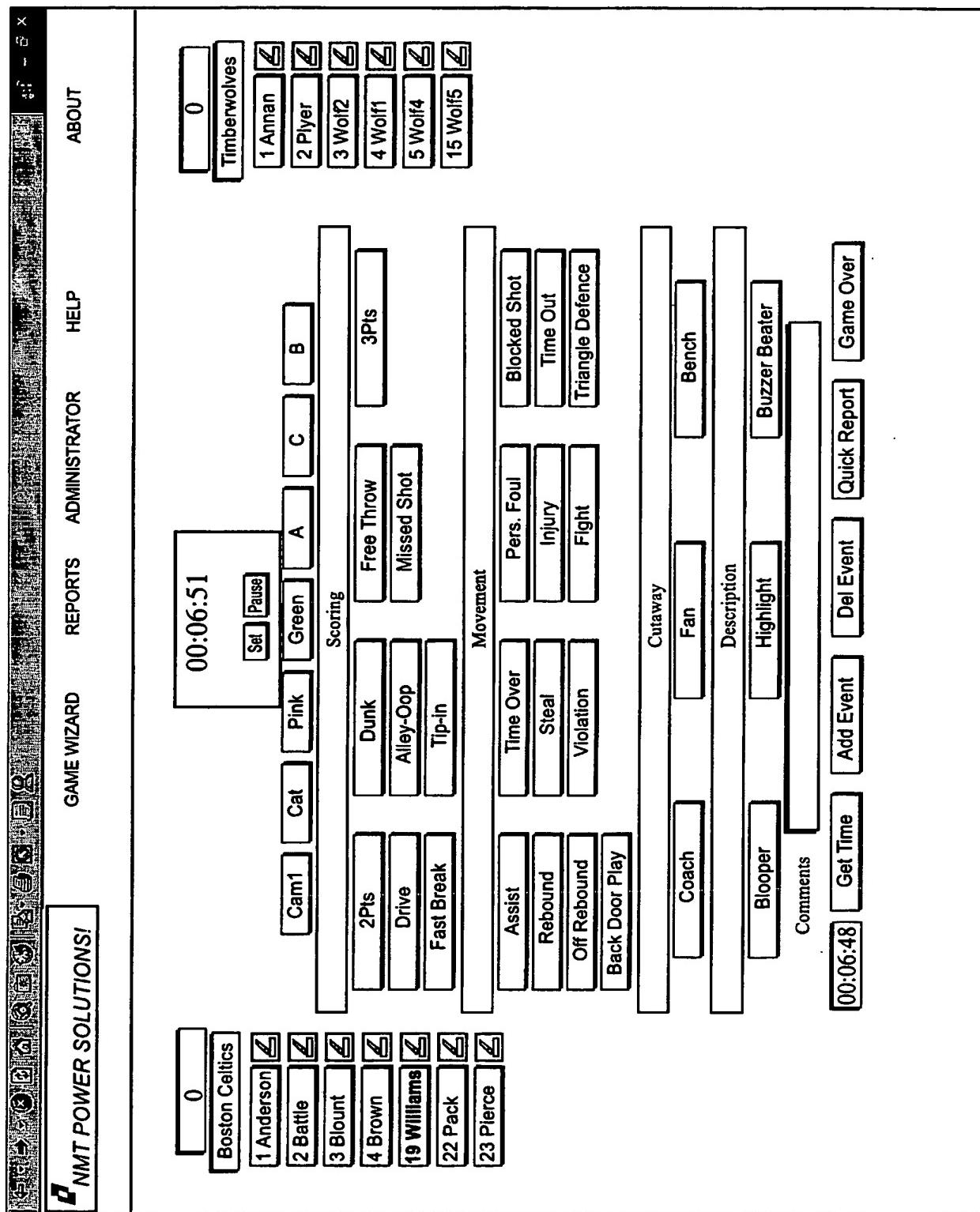


Fig.26

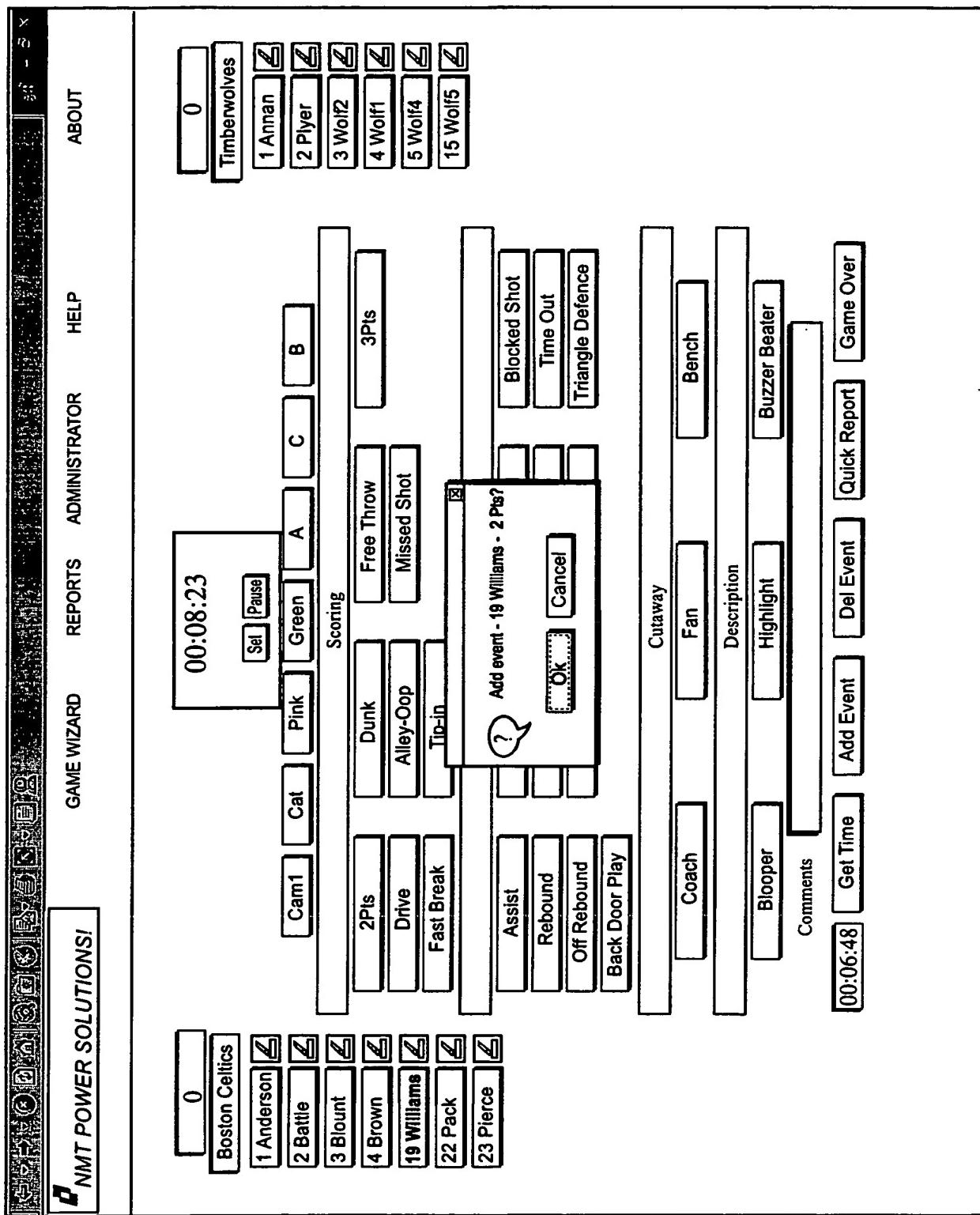


Fig.27

Quick Report									
Time	Boston Celtics	H Events	V PTS	V Events	Timberwolves	Comments	cam1	cam2	cam3
									C/B
00:00:00	Kerry Anderson	Violation	0	0			0	0	0
00:00:00	Paul Pierce	Rebound	0	0		Pierce Rebound...	0	0	0
00:00:00	Paul Pierce		0	0		Blooper,	0	0	0
00:00:00	Paul Pierce		0	0		Get the time code	0	0	0
00:02:00			0	0		BC back door play	0	0	0
00:02:30			0	0	Bench	Bench, The Bench, The Bench!!!! @#%\$%^&*()	0	0	4
00:02:41			0	0		Fan	0	0	0
00:03:18	John Williams	Bench	0	0		Beach	0	0	0
00:03:31			0	0		Coach	0	0	0
00:03:52	Robert Pack	Coach	0	0		Coach	0	0	0
00:04:05			0	0		Coach	0	0	0
00:06:48	John Williams	2 Pts	2	0		Highlight,	0	2	3

CLOSE

Fig.28

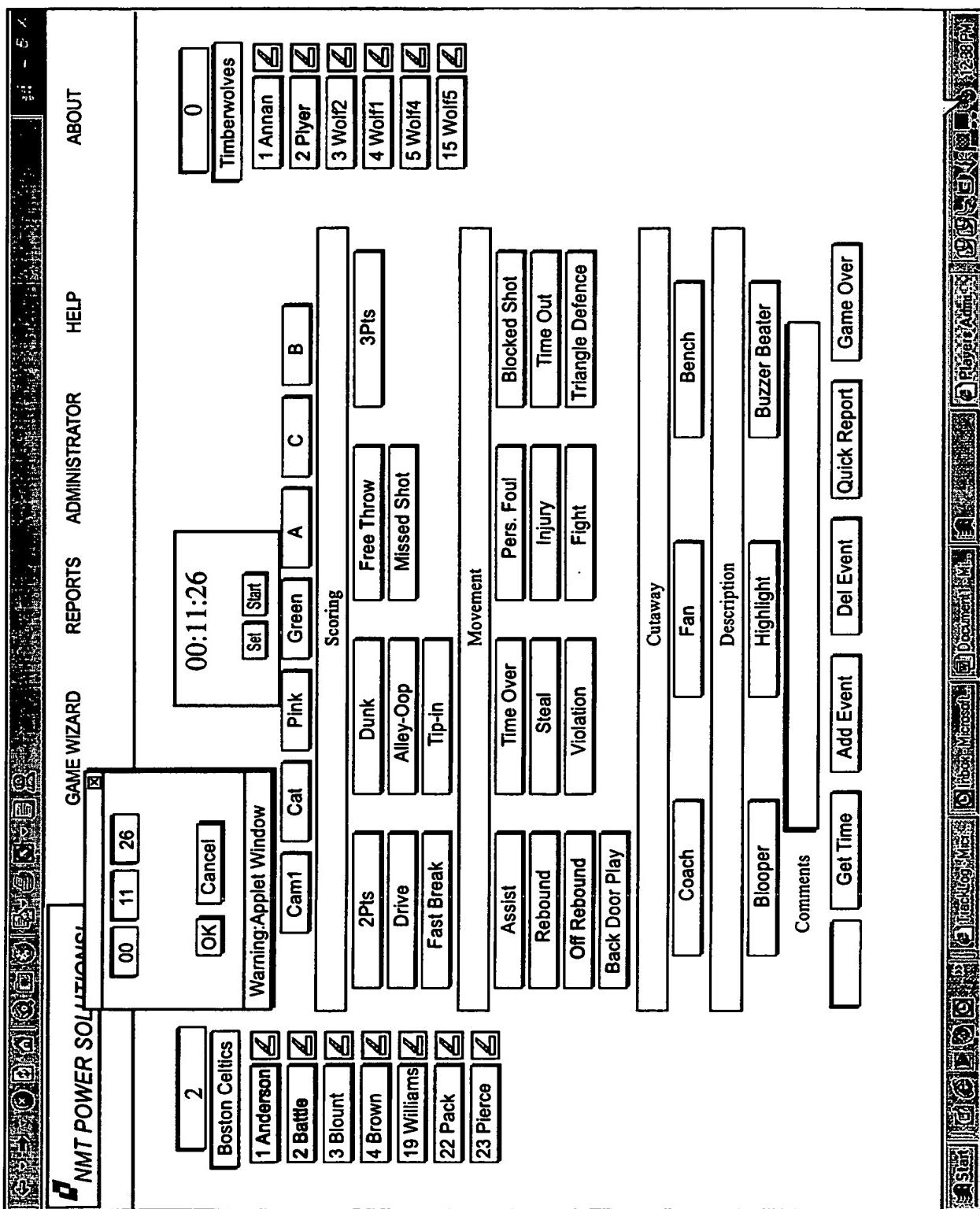


Fig. 29

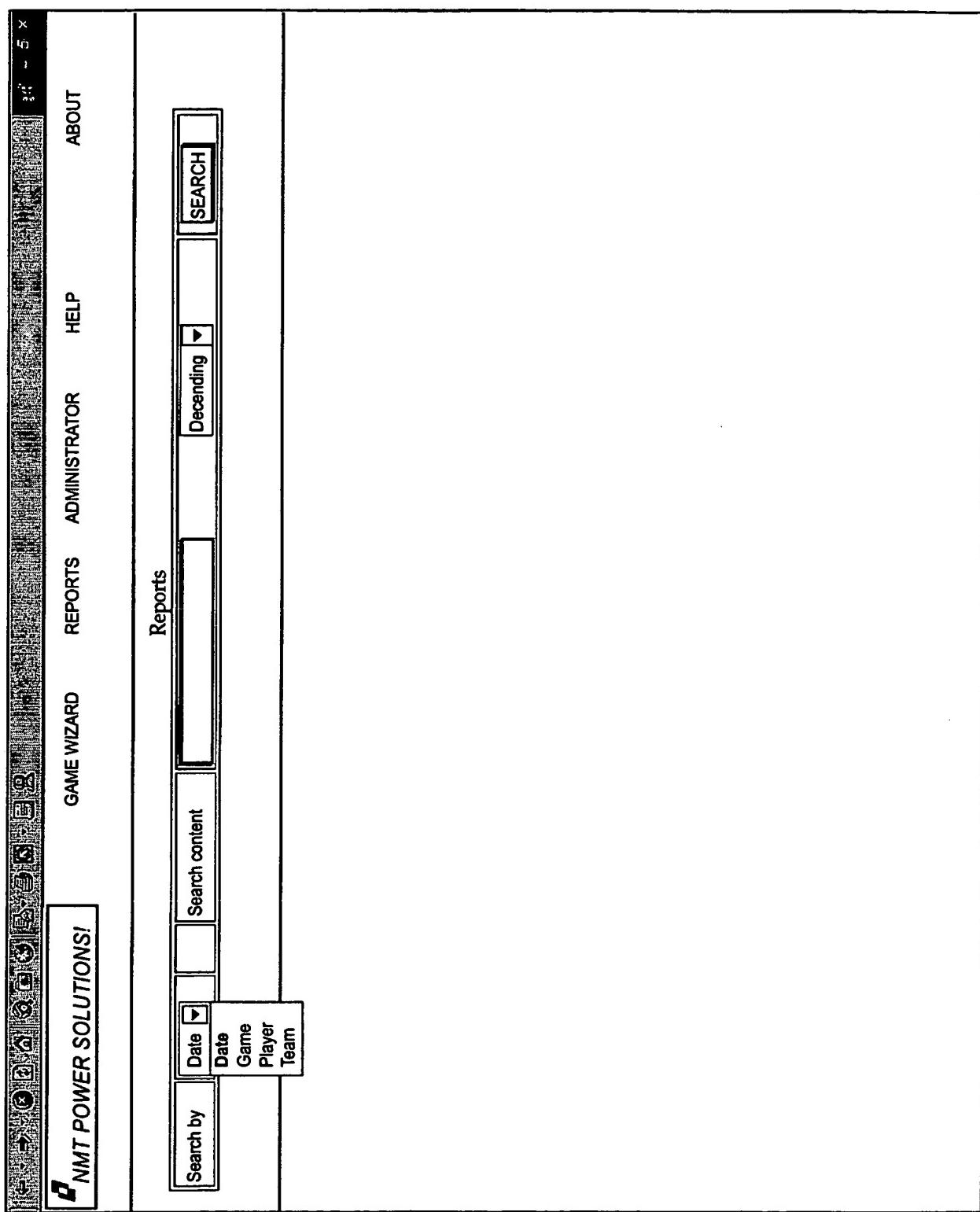


Fig.30

Fig.31

S - S X

NMT POWER SOLUTIONS!			
GAME WIZARD		REPORTS	ADMINISTRATOR
HELP	ABOUT		
<input type="button" value="Search by"/> <input type="button" value="Player"/> <input type="button" value="Search content"/> <input type="button" value="Search"/> <input type="button" value="Ascending"/> <input type="button" value="Search"/>			
<input type="button" value="Reports"/>			
Games List			
Player :Allan Houston			
GAME	Game Date	TEAM	EVENT
1222002	12-02-2002	New York Knicks	00:04:10
1222002	12-02-2002	New York Knicks	00:05:29
11256650	11-06-2000	New York Knicks	00:23:47
11256650	11-06-2000	New York Knicks	00:35:18
23	10-26-2000	New York Knicks	13:03:41
23	10-26-2000	New York Knicks	13:04:40
23	10-26-2000	New York Knicks	13:08:39
23	10-26-2000	New York Knicks	13:08:50
01142000	01-14-2000	New York Knicks	00:00:10
			missed shot...triangle offense.....
			Turn Over 12:13:33 ~~~~~~
			3 Pts
			Drive
			2 Pts
			Time Out
			Free Throw
			Turn Over

Fig.32

NMT POWER SOLUTIONS!

GAME WIZARD REPORTS ADMINISTRATOR HELP ABOUT

Reports

Search by

Games List

Team : New York Knicks

Game Date	Game
12-02-2002	1222002
11-14-2000	13
11-06-2000	11062000
11-06-2000	11256650
10-26-2000	23
10-25-2000	21
10-25-2000	22
04-06-2000	254550056
01-14-2000	01142000

Fig.33

100260 80090860

The screenshot shows a Microsoft Internet Explorer window with the following details:

- Title Bar:** SPURTS - Microsoft Internet Explorer
- Address Bar:** http://fluid8100/backetball/pfina.htm
- Content Area:**
 - Header:** GAME WIZARD, REPORTS, ADMINISTRATOR, HELP, ABOUT
 - Search Bar:** Search content
 - Report Buttons:** Reports, Player ▾, Ascending ▾, Search
 - Section:** Games List
 - Table:** A table listing game events for the game on 12-02-2002 between the New York Knicks and the Boston Celtics.

Table Data:

GAME	Game Date	TEAM	Time	EVENT	COMMENTS
1222002	12-02-2002	Boston Celtics	00:00:18	Fan	Fan, The fans cheer for their team...
1222002	12-02-2002	New York Knicks	00:00:51	Fan	Fan, New York Fans are Cheering!!!
1222002	12-02-2002	New York Knicks	00:01:50	Dunk	Highlight,Dunk!!! 1234567890
1222002	12-02-2002	Boston Celtics	00:02:24	Free Throw	Buzzer Beater,Buzzer Beater!@#\$%^&*()
1222002	12-02-2002	New York Knicks	00:02:46		3-points shot!@#3##@%
1222002	12-02-2002	Boston Celtics	00:03:17		back-door, back door 12344879
1222002	12-02-2002	New York Knicks	00:03:40		oooooo, alley----- oop+++++-----
1222002	12-02-2002	New York Knicks	00:04:10		missed shot....triangle offense.....
1222002	12-02-2002	Boston Celtics	00:04:28	Fast Break	Coach, coach cheering as well....
1222002	12-02-2002	New York Knicks	00:04:43	Tip-in	gagagaga
1222002	12-02-2002	Boston Celtics	00:05:09	Assist	We Assist, We Assist, WA
1222002	12-02-2002	New York Knicks	00:05:29	Turn Over	Turn Over 1213233.....
1222002	12-02-2002	Boston Celtics	00:05:43	Pers. Foul	Blooper,Personal Foull
1222002	12-02-2002	New York Knicks	00:06:02	Blocked Shot	when Shot is Blocked!@@@
1222002	12-02-2002	New York Knicks	00:09:51	Steal	Bench, Buzzer Beater,Ewin, Steals

Fig.34

Boston Celtics	H_EVENTS	H_PTS	Time	V_FTSS	A_EVENTS	New York Knicks	Comments	caml	cat	Pink	Green	ACB
Fan	0	00:00:18	0				Fan, The fans cheer for their team...	0	0	0	0	0
	0	00:00:51	0		Fan		Fan, New York Fans are Cheering!!!	1	2	3	4	567
	0	00:01:50	2		Dunk	Chris Childs	Highlight,Dunk!!! 1234567890	0	0	0	0	0
Tony Battie	Free Throw	1	00:02:24	2			Buzzer Beater,Buzzer Beater!@#\\$%^&*&()	0	0	0	0	0
	1	00:02:46				Larry Johnson	3-points shot!@#\\$%^&*	0	0	0	0	0
Mark Blount		00:03:17	2				back-door, back door 123544879	0	0	0	0	0
		1	00:03:40			Chris Dudley	oooooo, alley-oop+-----+-----+	0	0	0	0	0
Randy Brown	Fast Break	3	00:04:28	2		Allan Houston	missed shot....triangle offense.....	0	0	0	0	0
		3	00:04:43	4	Tip-in	Marcus Camby	Coach, coach cheering as well....	0	0	0	0	0
John	Assistant	2	00:05:00	1			ggggggggg	0	2	3	4	567
							117...A minute 117...A minute 117 A	1	1	2	0	0

Fig.35

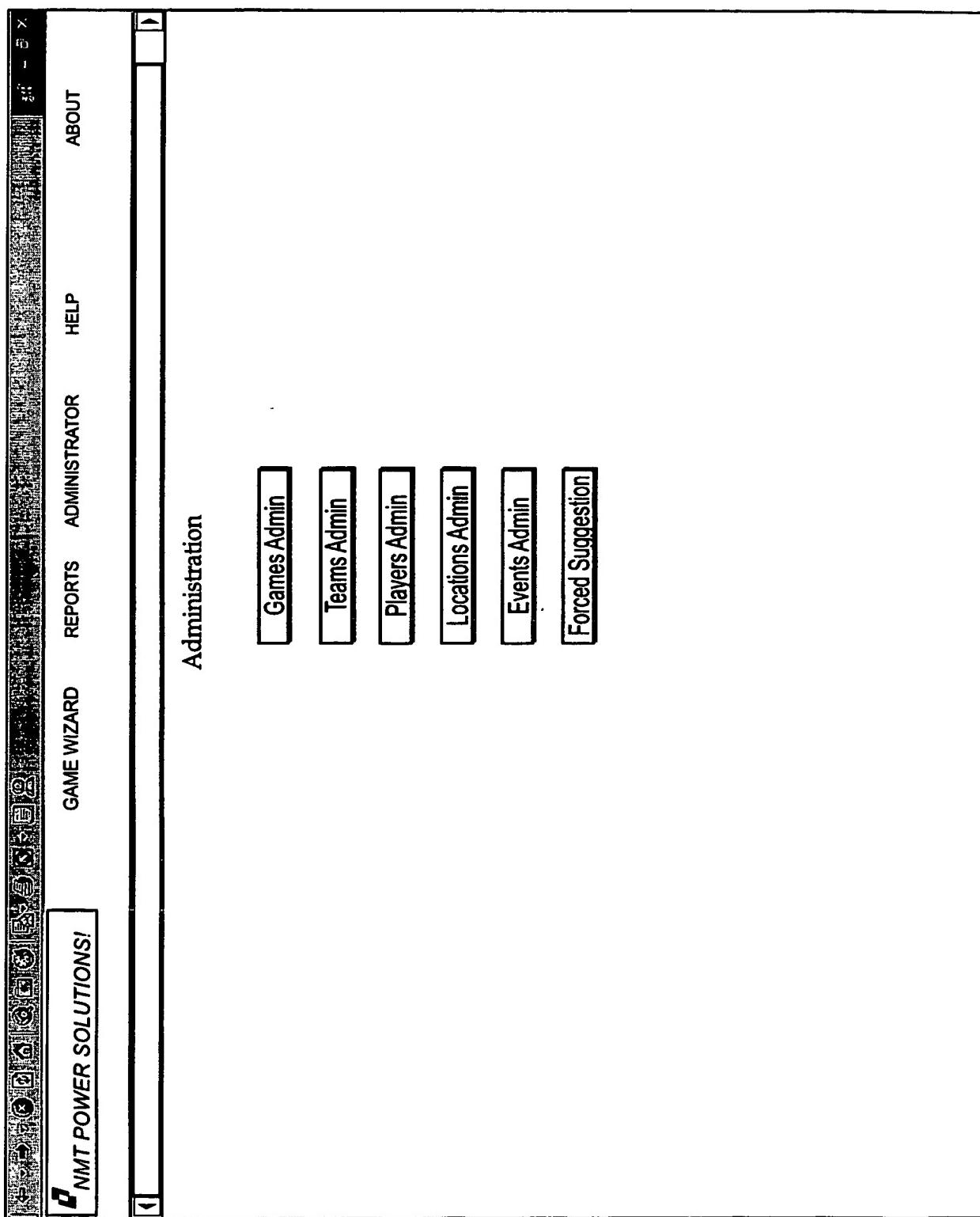


Fig.36

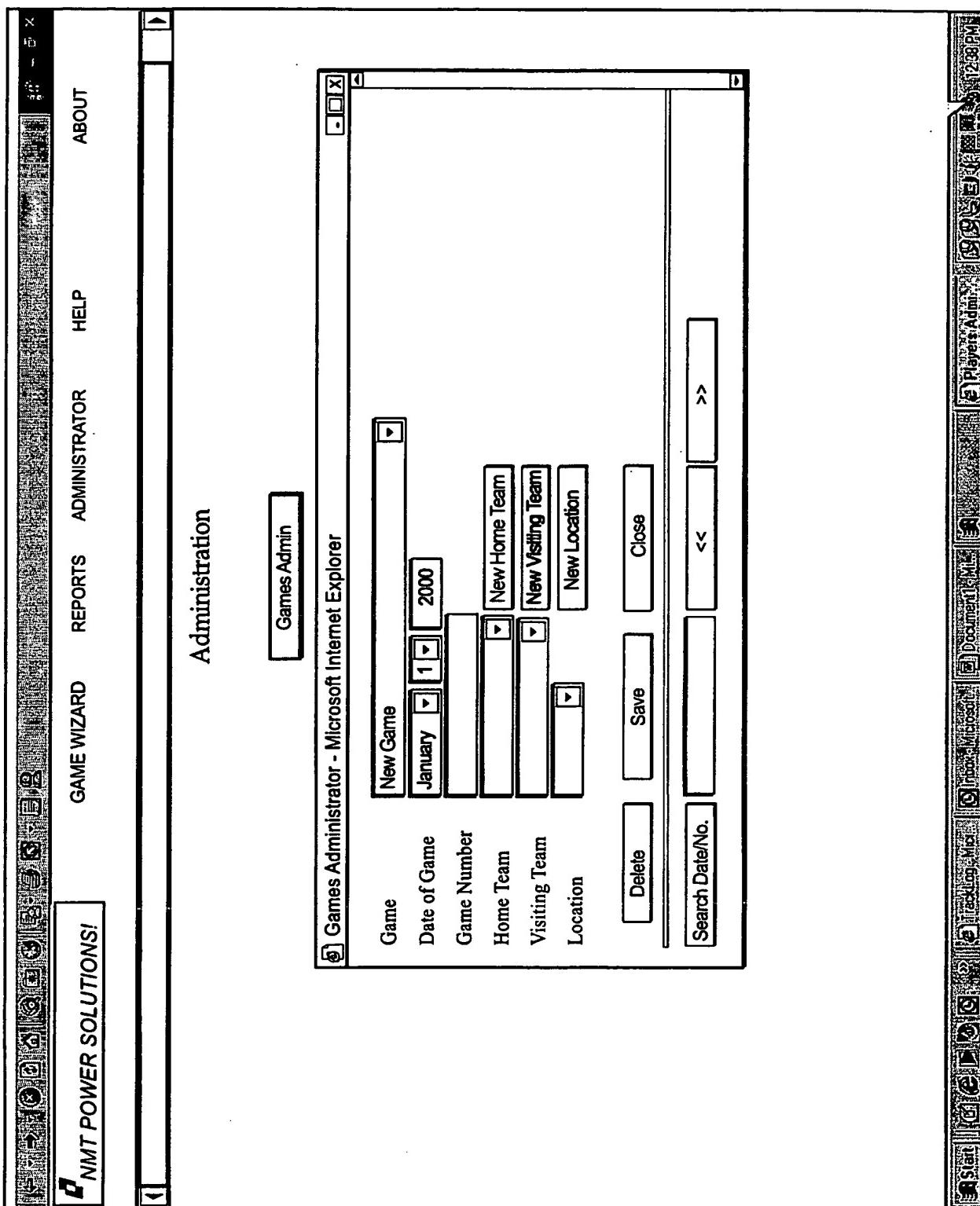


Fig.37

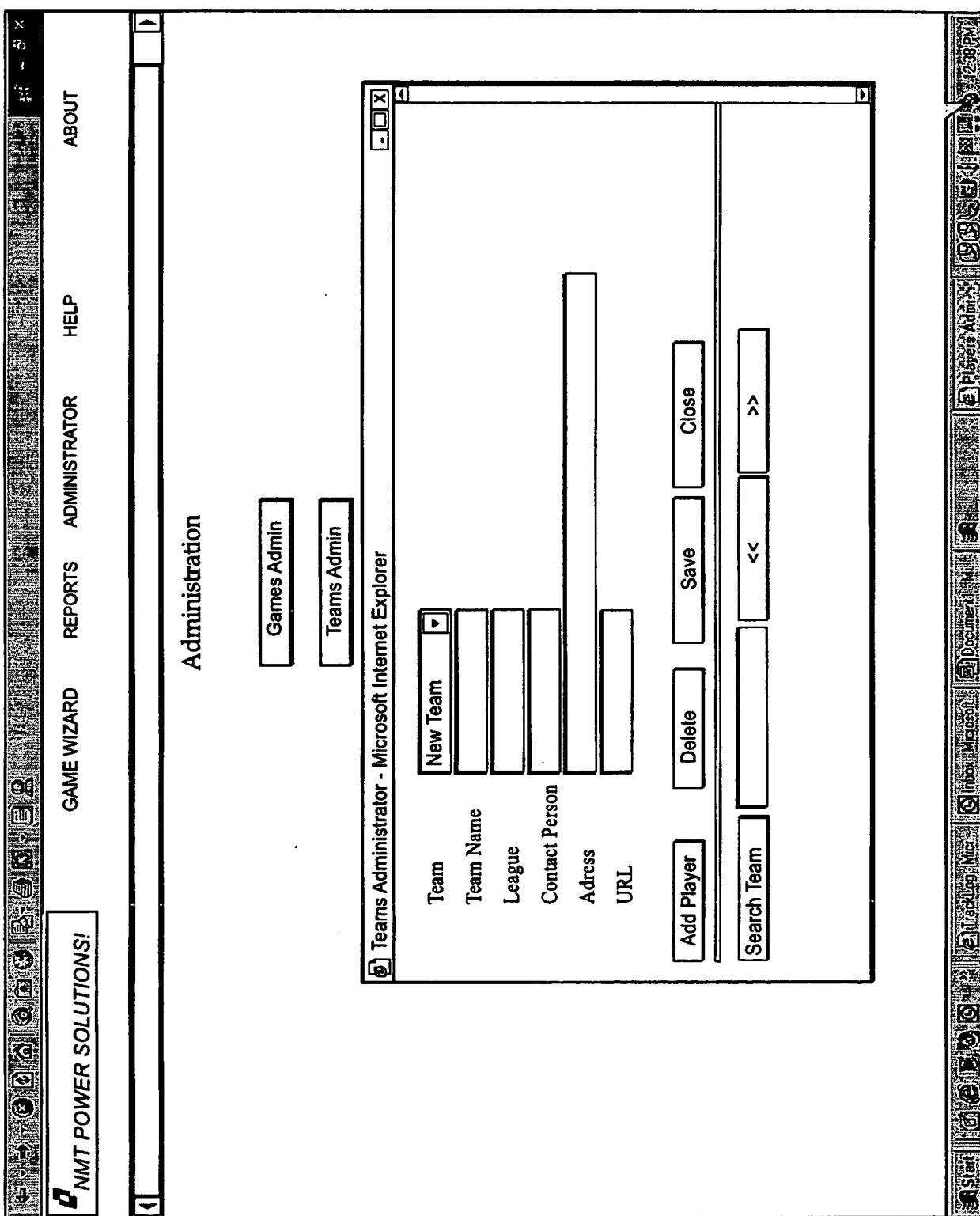


Fig.38

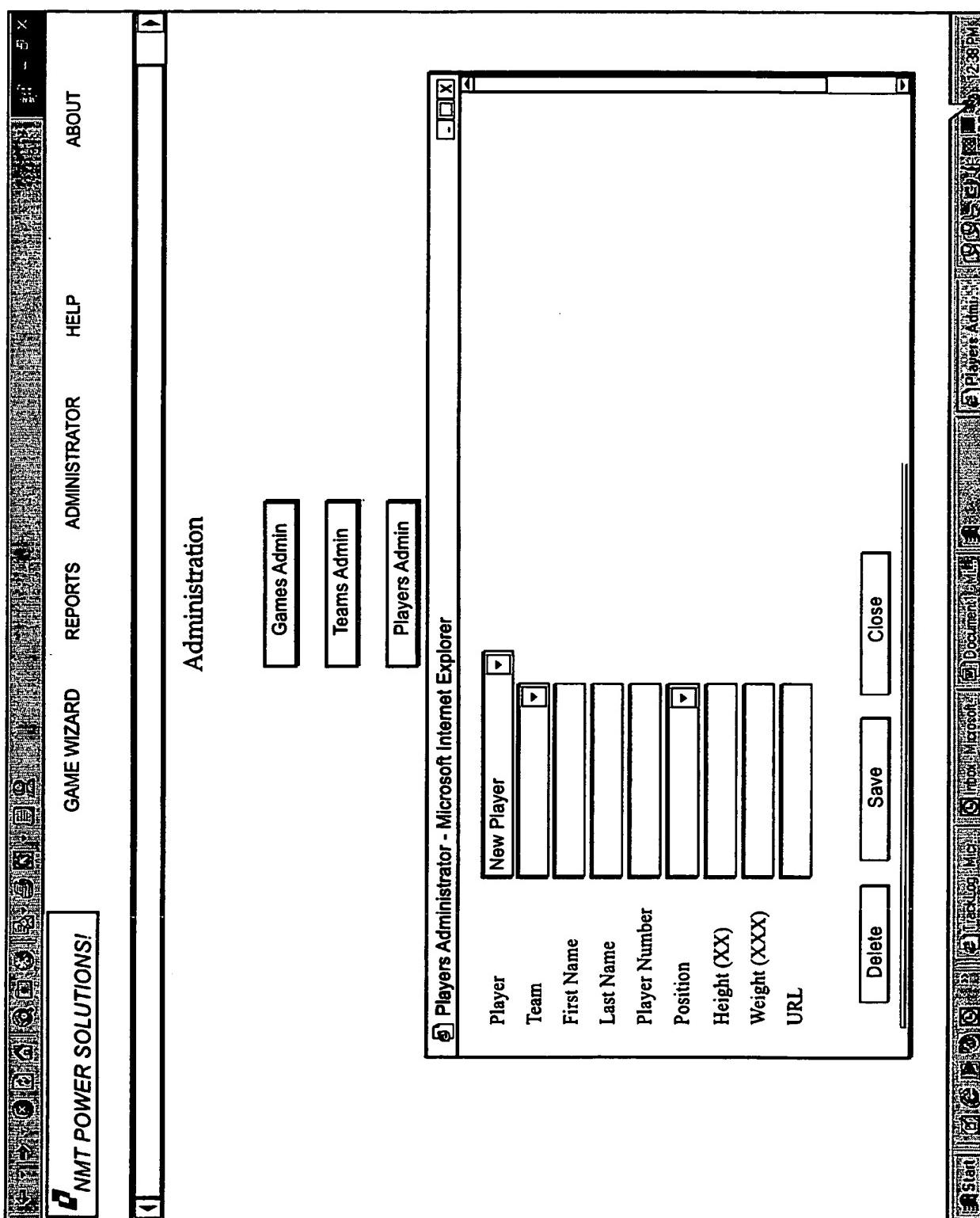


Fig.39

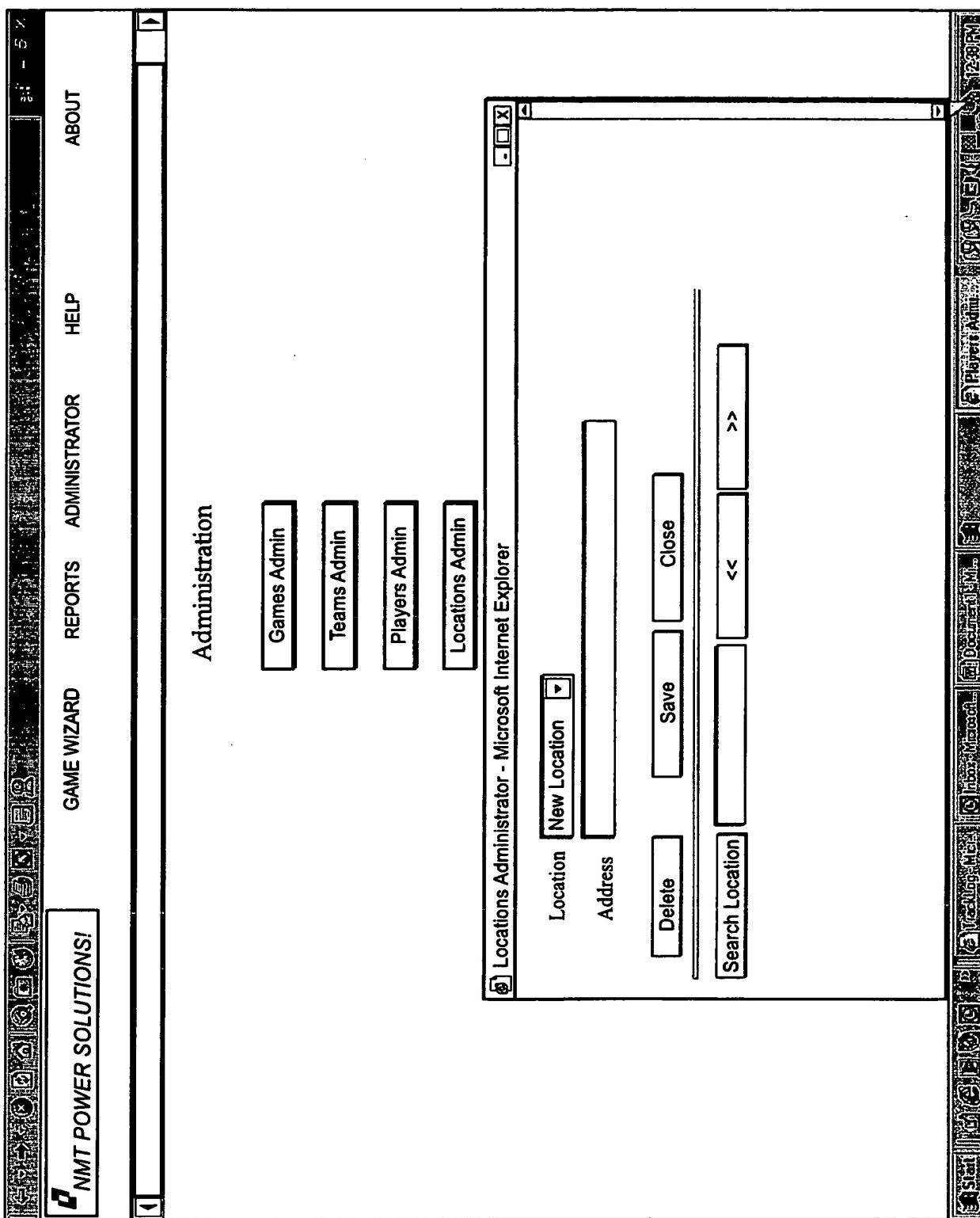


Fig.40

9 / 8 0 0 0 0

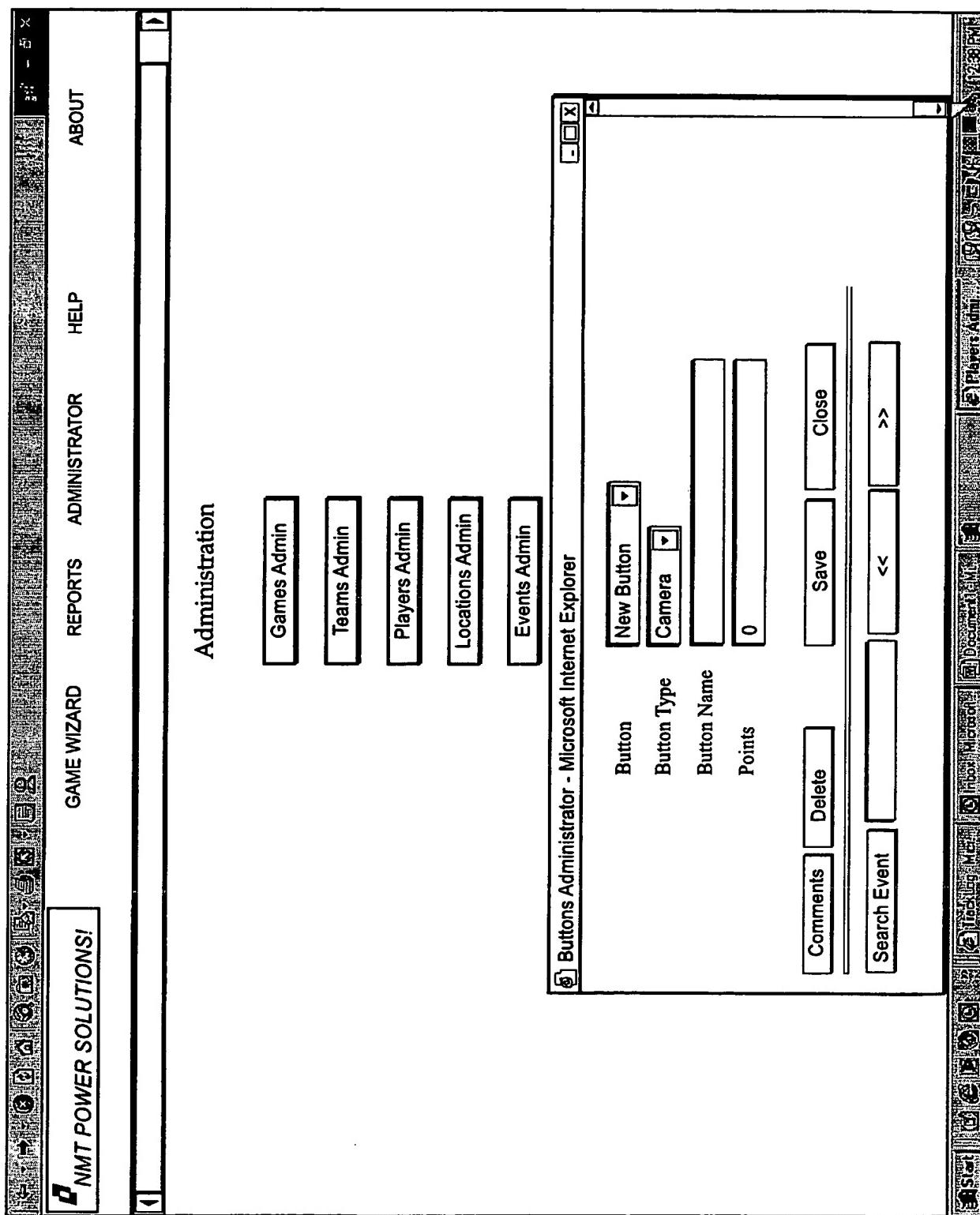


Fig.41

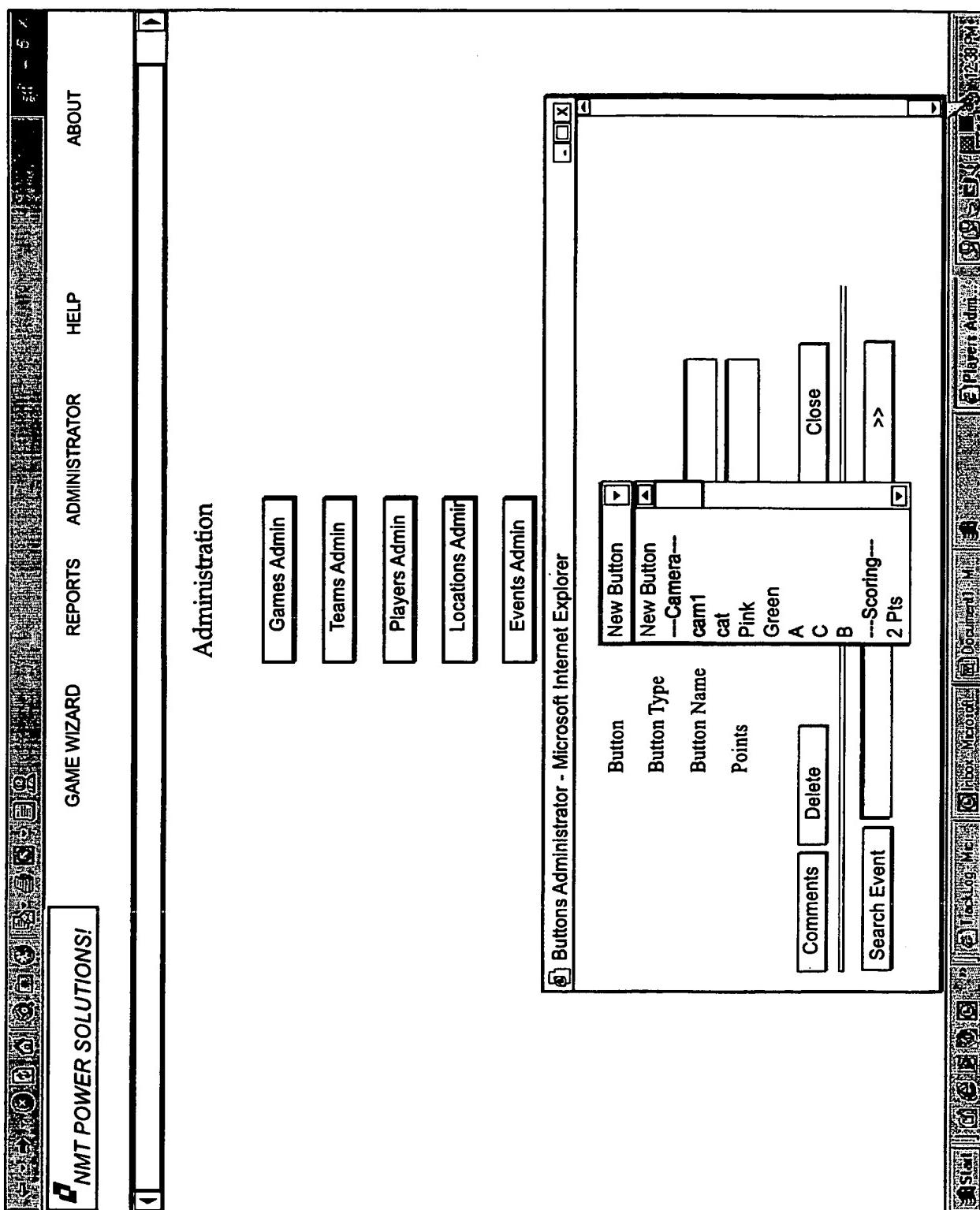


Fig.42

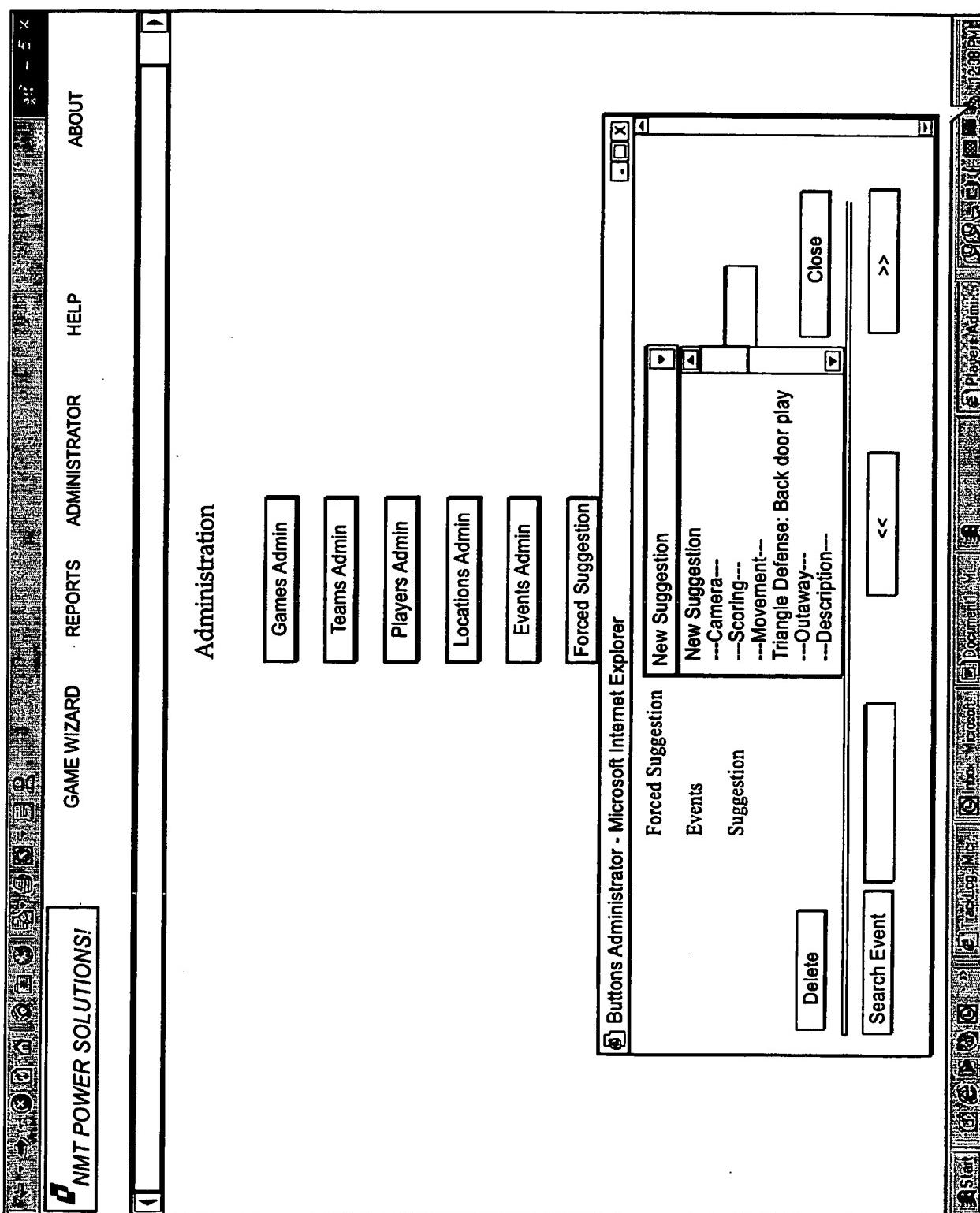


Fig.43

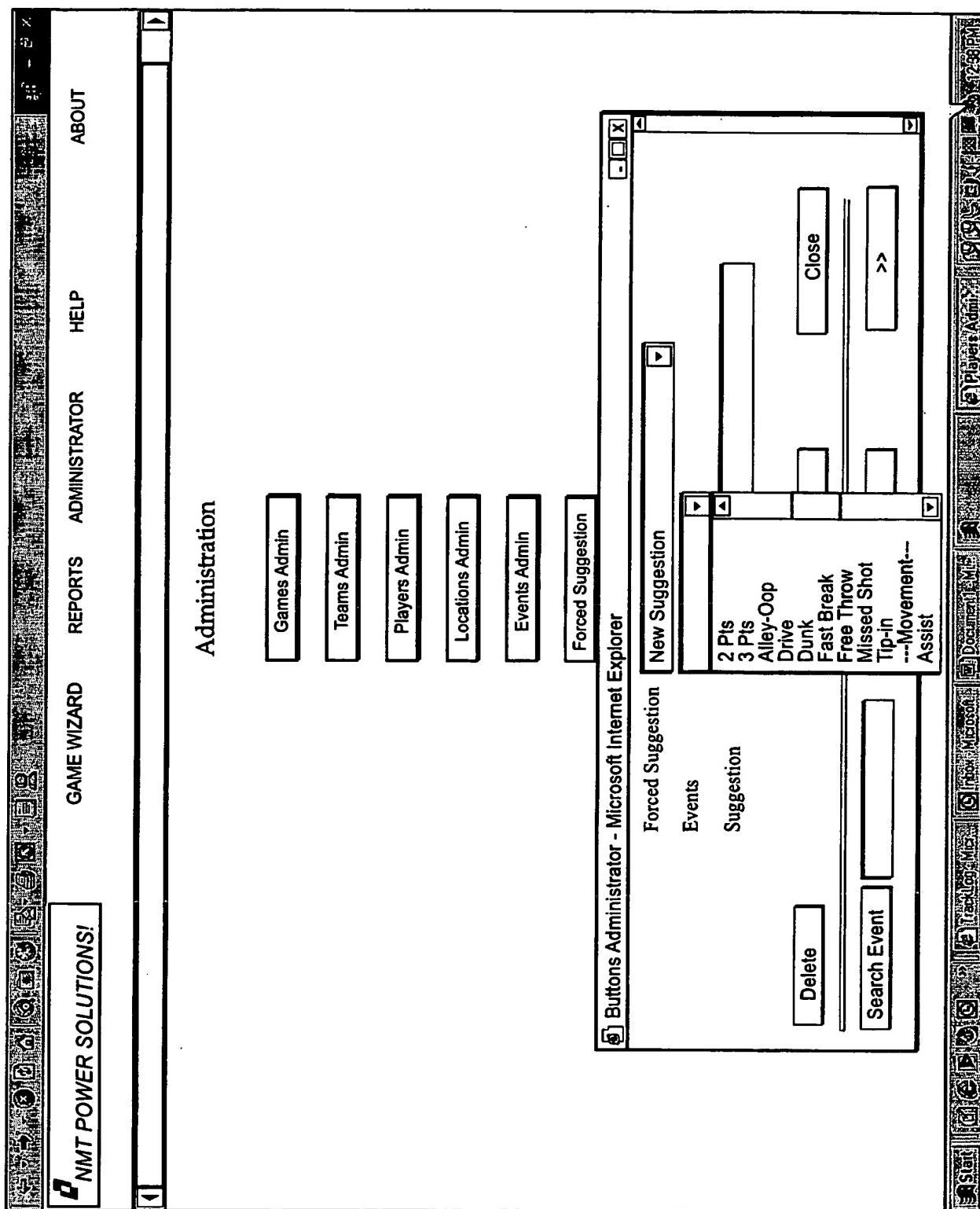


Fig.44

MMT POWER SOLUTIONS!	GAME WIZARD	REPORTS	ADMINISTRATOR	HELP	ABOUT																																				
<hr/> NEW JERSEY DEVILS vs. DALLAS STARS <hr/>																																									
<p>Home Team:</p> <p>NEW JERSEY DEVILS</p> <table border="1"> <tr><td>DEVILS TAKE THE ICE</td><td>FIGHT DEVELOPS</td><td>HARD CHECK & PUNCH</td></tr> <tr><td>SHOT ON GOAL</td><td>HARD CHECK</td><td>FACE OFF & BREAKAWAY</td></tr> <tr><td>SHOT ON GOAL 2</td><td>SHOT ON GOAL 3</td><td>SHOT ON GOAL 4</td></tr> <tr><td>SHOT ON GOAL 5</td><td>SHOT ON GOAL 6</td><td>SHOT ON GOAL 7</td></tr> <tr><td>SHOT ON GOAL 8</td><td>SAVE</td><td>SAVE 2</td></tr> <tr><td>HARD CEHECK 2</td><td>FAN - BRODEUR'S WIFE</td><td>FAN</td></tr> <tr><td>FAN - "LET'S GO DEVILS"</td><td>FAN - BRODEUR'S WIFE SCARED</td><td>GOALIE: BRODEUR STUNNED</td></tr> <tr><td>BREAKAWAY</td><td></td><td></td></tr> </table> <p>Visiting Team:</p> <p>DALLAS STARS</p> <table border="1"> <tr><td>BENCH</td><td>FACE OFF</td><td>FACE OFF 2</td></tr> <tr><td>SHOT ON GOAL OFFEN/DEF.</td><td>SHOT ON GOAL 2</td><td>GOALIE VIEW</td></tr> <tr><td>SAVE</td><td>SHOT ON GOAL 3</td><td>SHOT ON GOAL 4</td></tr> <tr><td>FACE OFF NIEUWENDYK WINS</td><td>SCORED GOAL & CELEBRATION</td><td>SAVEREPLAY</td></tr> </table>						DEVILS TAKE THE ICE	FIGHT DEVELOPS	HARD CHECK & PUNCH	SHOT ON GOAL	HARD CHECK	FACE OFF & BREAKAWAY	SHOT ON GOAL 2	SHOT ON GOAL 3	SHOT ON GOAL 4	SHOT ON GOAL 5	SHOT ON GOAL 6	SHOT ON GOAL 7	SHOT ON GOAL 8	SAVE	SAVE 2	HARD CEHECK 2	FAN - BRODEUR'S WIFE	FAN	FAN - "LET'S GO DEVILS"	FAN - BRODEUR'S WIFE SCARED	GOALIE: BRODEUR STUNNED	BREAKAWAY			BENCH	FACE OFF	FACE OFF 2	SHOT ON GOAL OFFEN/DEF.	SHOT ON GOAL 2	GOALIE VIEW	SAVE	SHOT ON GOAL 3	SHOT ON GOAL 4	FACE OFF NIEUWENDYK WINS	SCORED GOAL & CELEBRATION	SAVEREPLAY
DEVILS TAKE THE ICE	FIGHT DEVELOPS	HARD CHECK & PUNCH																																							
SHOT ON GOAL	HARD CHECK	FACE OFF & BREAKAWAY																																							
SHOT ON GOAL 2	SHOT ON GOAL 3	SHOT ON GOAL 4																																							
SHOT ON GOAL 5	SHOT ON GOAL 6	SHOT ON GOAL 7																																							
SHOT ON GOAL 8	SAVE	SAVE 2																																							
HARD CEHECK 2	FAN - BRODEUR'S WIFE	FAN																																							
FAN - "LET'S GO DEVILS"	FAN - BRODEUR'S WIFE SCARED	GOALIE: BRODEUR STUNNED																																							
BREAKAWAY																																									
BENCH	FACE OFF	FACE OFF 2																																							
SHOT ON GOAL OFFEN/DEF.	SHOT ON GOAL 2	GOALIE VIEW																																							
SAVE	SHOT ON GOAL 3	SHOT ON GOAL 4																																							
FACE OFF NIEUWENDYK WINS	SCORED GOAL & CELEBRATION	SAVEREPLAY																																							

Fig.45

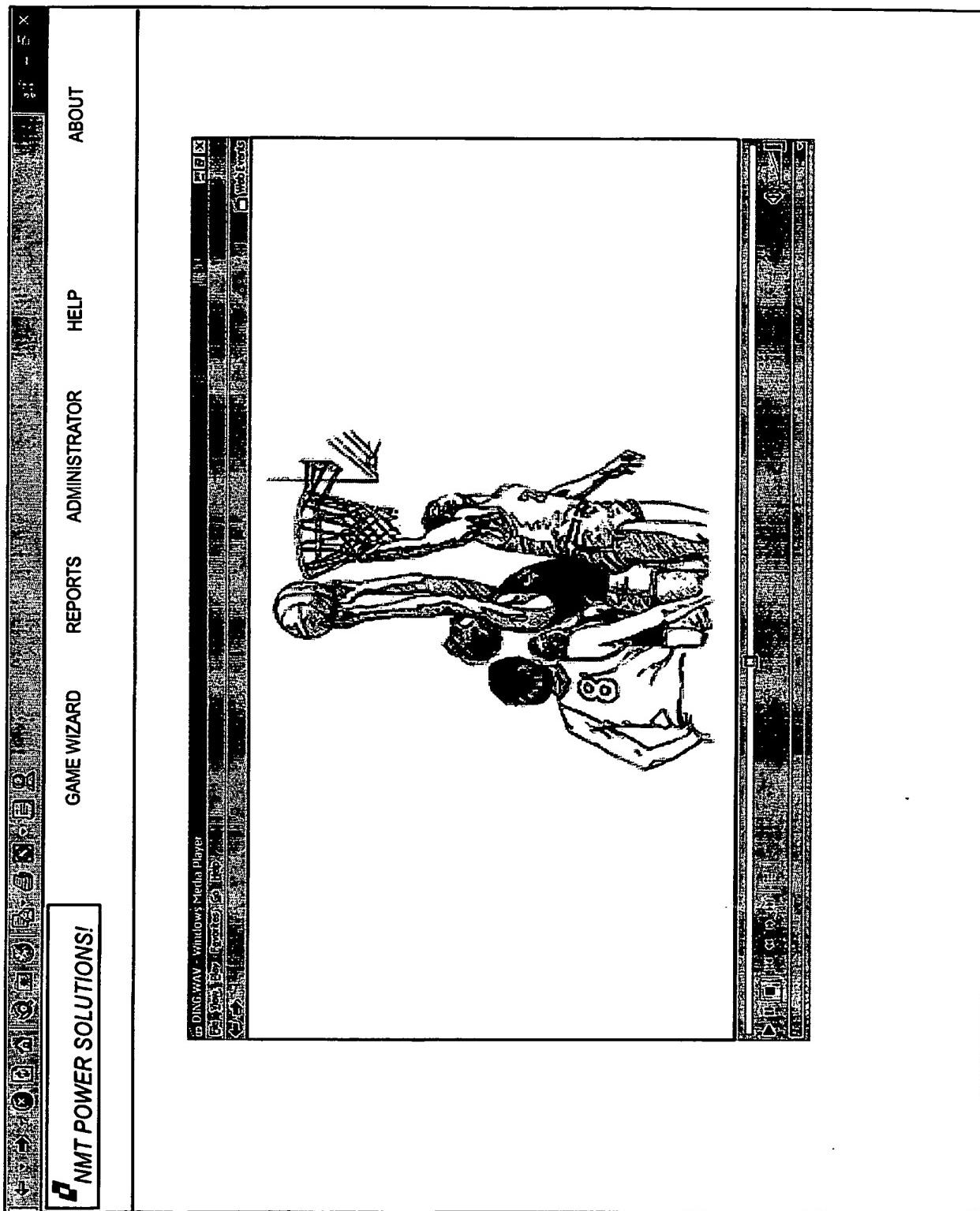


Fig.46